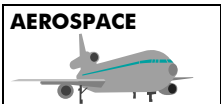




Aircraft Wires and Cables



Introduction

Since 1938 and the creation of Filotex in Draveil (France), Nexans has been a driving force in the world of aerospace cables. Today, Nexans is proud to provide a complete range of aircraft wires and cables – which is also the largest in the industry.

From high temperature cables to low-loss coaxial cables and from data-buses for In Flight Entertainment Systems to fire resistant engine wires, Nexans supplies every aircraft application.

It goes without saying that our only concern is to provide you with the cable solution you need and – thanks to a combined expertise in the USA and Europe in technologies as diverse as PTFE Powder Extrusion, Tape Wrap cables, Cross-Linked cables and Melt Extrusion – we can do it.

About Nexans

With energy as the basis of its development, Nexans, the worldwide leader in the cable industry, offers an extensive range of cables and cabling systems. The Group is a global player in the infrastructure, industry and building markets.

Nexans addresses a series of market segments from energy, transport and telecom networks to shipbuilding, oil and gas, nuclear, automotive, electronics, aeronautics, handling and automation.

With an industrial presence in more than 30 countries and commercial activities worldwide, Nexans employs 21,000 people and had sales in 2006 of 7.5 billion euros. Nexans is listed on the Paris stock exchange, compartment A of the Eurolist of Euronext.

More information on <http://www.nexans.com/>



The largest range to meet your requirements

- | | |
|---|---|
| <p>1- Hook-up wires & data bus cables for fuselage</p> <p>2- Hook-up wires, data bus cables & ethernet quad in passenger area (in flight entertainment, signalling)</p> <p>3- Coaxial & optical cables for high frequency transmission (radio/radar, anti-collision system/avionics)</p> <p>4- Power cables for power supply unit</p> <p>5- Hook up wires in wings</p> | <p>6- Special cable assemblies for satellite communication</p> <p>7- Hook-up wires & data bus cables in cockpit</p> <p>8- Hook-up wires for landing gear</p> <p>9- Fire resistant cables in engine (core and nacelle)</p> <p>10- High temperature cables in engine environment (connections to the engine)</p> |
|---|---|

W W W . N E X A N S . C O M

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Content

Catalogue – Issue 7 – May 2007

	Guideline for aerospace cables	Page
	<i>Product families:</i>	
Part 1	Hook-up wires for Civil, Military aircraft and helicopters	Page 17
Part 2	Cables for power transmission	Page 77
Part 3	Nacelles and engines: high temperature, fire resistant/proof cables	Page 83
Part 4	Coaxial cables for high frequency transmission	Page 169
Part 5	Data bus and high speed transmission cables	Page 207
Part 6	Special cables	Page 243
Part 7	Optical cables	Page 259
Part 8	Wires and cables for avionics	Page 267



List of references / Page

1050	99	EN 3375-004-C WJ	233	MBBN 3320 YH +++	255
1052	101	EN 3375-005-C WV	235	MIL W 25038/1 (QPL) (mono)	105
1053	101	EN 3375-006-D XM	237	MIL W 25038/3 (QPL) (mono)	107
2100	93	EN 3375-007-C WW	239	MIL W 25038/3 (QPL) (mono)	109
2102	95	EN 4049	255	MIL W 25038/3, MIL DTL 27500....	111
2103	97	EN 4604-003 WZ	183	MIL W 25038/3, MIL DTL 27500....	115
3000A	161	EN 4604-004 WS	185	MIL-DTL-81381/7 to 22	MSC*
ABS 0386 WF	231	EN 4604-005 WL	187	MIL-W-16878/4 to 28	MSC*
ABS 0949 AD AWG 3 to 000	35	EN 4604-006 WM	189	MIL-W-22759/32 to 46	MSC*
ABS 0949 AD AWG 24 to 4	33	EN 4604-007 WN	191	MIL-W-22759/5 to 31	MSC*
ABS 0963-003 LF	261	EN 4604-008 WD	193	MIL-W-22759/80 to 92	MSC*
ABS 1354 ADA	37	EN 4608-004 / GPA, GPB, GPC	129	NSA 935 131 DG/ EN 2854-003...	87
ABS 1356	41	EN 4608-005-B 002 GPB24	241	NSA 935 306 YK	247
ABS 1503 KD 24	211	ESW 1000-010-XXX	131	NSA 935 308 YU	81
ASNE 0259 HE	221	ESW 1100-010-XXX	133	NSA 935 344 XE	203
ASNE 0261 CF	47	ESW 1101-+++ -XXX	135	PAN 6421 ZA002	219
ASNE 0264 PF, 0266 QF, 0268 RF	49	ESW 1102-+++ -XXX	137	PAN 6422	199
ASNE 0270 ST, 0272 TK, 0274 UD	53	ESW 1200-010-XXX	145	PFG, QFG, RFG	57
ASNE 0290 XM	237	ESW 1201-010-XXX	145	SJB, TKB, UDB, VLB	59
ASNE 0293 XF	201	ESW 1202-+++ -XXX	147	TMF	105
ASNE 0349 WC	205	ESW 1203-+++ -XXX	147	TMF 350-A FLEX SBJ	163
ASNE 0409 BG, ASNE 0410 SU	257	ESW 1250-010-XXX	149	TMF VRA-US TMF VR-US	107
ASNE 0411 TV, ASNE 0412 VF	257	ESW 1251-010-XXX	149	VG 95218-20 type H	29
ASNE 0437 DL / EN 2346-003	121	ESW 1252-+++ -XXX	151	VG 95218-20 type J	85
ASNE 0438 YV	79	ESW 1253-+++ -XXX	151	VG 95218-22 type E	31
ASNE 0479 WJ	217	ESW 1254-010-002	153	VG 95218-23 type D	31
ASNE 0811 WY	229	ESW 1254-022-002	155	ET 124401	245
ASNE 0849 HJ 26	225	ESW 1254-032-002	155	ET 124585	167
BAS 8710	43	ESW 1404-022-006	249	ET 124762	249
BAS 8711, 8712, 8713	45	ESW 1405-024-006	251	ET 124843	225
BMS 13-55 Type 2 Class 1	119	ESW 1600-010-XXX	157	ET 124960	213
BMS 13-58 Type 1 & Type 5	89	ESW 1601-010-XXX	157	ET 124961	215
BMS 13-67	163	ESW 1602-022-XXX	159	ET 124962	175
CAS 85-22P, 250-20P	253	ESW 1700-010-XXX	139	ET 124964	179
CAS 250-20SP, 250-22	253	ESW 1701-010-XXX	141	ET 132041	239
ECS 0700 WW	239	ESW 1702-022-XXX	143	ET 132057	251
ECS 0741 DW	123	ETF, EF, EEF	277	ET 132126	261
ECS 0742 GPA, GPB, GPC	125	FRM-A-US FRM-US	109	ET 132868	177
ECS 0745 KC	197	FX 5301	29	ET 132869	181
ECS 0757 KE	195	FX 5303	31	ET 17412	205
EN 2266-003 PF - QF - RF	49	FX 5400	85	ET 2PF870	211
EN 2266-005A CF U	47	JN 1007	19	ET 61333	227
EN 2267-007 PN, QL, RK	63	JN 1018	21	ET 63247	221
EN 2267-008A DM	61	JN 1019	23	ET 65529	219
EN 2267-009 DRB, DRC, DRD	71	JN 1026	25	ET 69342	235
EN 2267-010A DR	69	KX RG coaxial cables	171	ET 69654 Honeywell	223
EN 2346-005 / DW	127	KZ 04, KZ 05, KZ 06	269	ET 69794-01, ET 69794-02	233
EN 2713-007 SJ,TK, UD, VL/U	53	KZ 55, KZ 57, KZ 59	271	ET 69899-01, ET 69899-02	229
EN 2714-011 GJ, MH, UU, VV	65	KZ 67, KZ 69, KZ 71	273	ET 86891	247
EN 2714-012 MJ	67	KZ 79, KZ 81, KZ 83	275	ET 96532	255
EN 2714-013 ML	73	M17/176-00002 Data bus cable ...	209	ET 96533	255
EN 2714-014 MM	75	M27500A**JF + 1 N 06	111	ET 96770-01, ET 96770-02	217
EN 3375-004B	217	M27500A**JF + N 24	115	ET 96897	231

*MSC = See Mil Spec Catalogue

Guideline for aerospace cables

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 **nexans**

Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specifications	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
JN 1007	• Arc tracking resistant, • Flexible light weight wires.	●					●	●				19
JN 1018	• Arc tracking resistant, • Flexible light weight wires.	●					●		●		●	21
JN 1019	• Arc tracking resistant, • Flexible light weight wires.	●					●	●		●	●	23
JN 1026	• Arc tracking resistant, • Flexible light weight wires with EMI protection.	●					●	●		●	●	25
VG 95218-20 type H FX 5301	• Arc tracking resistant, • Flexible light weight wires, • Silver plated conductors.	●					●	●				29
VG 95218-22 type E VG 95218-23 type D FX 5303	• Arc tracking resistant, • Single core and multicore.	●					●	●	●	●	●	31
ABS 0949 AD AWG 24 to 4	• Arc tracking resistant, • Light weight wires, • Nickel copper clad aluminium.		●				●	●				33
ABS 0949 AD AWG 3 to 000	• Arc tracking resistant, • Light weight wires, • Nickel aluminium.		●				●	●				35
ABS 1354 ADA, ADB, ADC, ADD	• Arc tracking resistant, • Light weight wires, • Non UV markable, • Nickel copper clad aluminium, • Single core and multicore.		●				●	●	●			37
ABS 1356	• Arc tracking resistant, • Single core and multicore, • UV laser printable, • Nickel copper clad aluminium.		●				●	●	●	●	●	41
BAS 8710	• Cable for airframe, • General purpose.			●				●				43
BAS 8711, 8712, 8713	• Cable for airframe, • General purpose.			●				●	●	●	●	45
ASNE 0261 CF U	• Flexible light weight wires, • Polyimide insulation.				●			●				47
ASNE 0264 PF ASNE 0266 QF ASNE 0268 RF	• Flexible light weight wires, • Polyimide insulation.				●				●			49
ASNE 0270 SJ ASNE 0272 TK ASNE 0274 UD EN2713-007D	• Flexible light weight cables, • Polyimide insulation, • UV markable jacket, • Single core and multicore.				●			●	●	●	●	53
PFG, QFG, RFG	• Flexible light weight wires, • Polyimide insulation, • UV markable jacket.				●				●		●	57

Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specifications	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
SJB, TKB, UDB, VLB	- Flexible light weight wires, - Polyimide insulation, - UV markable jacket, - Single core and multicore.				●			●	●	●	●	59
EN 2267-008A DM	- Arc tracking resistant, - UV laser printable, - Medium weight, - Composite insulation.					●	●	●				61
EN 2267-007 PN, QL, RK	- Arc tracking resistant, - UV laser printable, - Medium weight, - Composite insulation.					●	●		●			63
EN 2714-011 GJ, MH, UU, VV	- Arc tracking resistant, - UV laser printable, - Medium weight , - Composite insulation, - Single core and multicore.					●	●	●	●	●	●	65
EN 2714-012 MJ	- Arc tracking resistant, - UV laser printable, - Screened (Braided) and Jacketed multicores					●	●		●	●	●	67
EN 2267-010A DR	- Arc tracking resistant, - UV laser printable, - Light weight, - Composite insulation.					●	●	●				69
EN 2267-009 DRB, DRC, DRD	- UV laser printable, - Light weight, - Arc tracking resistant, - Composite insulation.					●	●		●			71
EN 2714-013 MLA, MLB, MLC, MLD	- UV laser printable, - Light weight, - Arc tracking resistant, - Composite insulation, - Single core and multicore.					●	●	●	●	●	●	73
EN 2714-014 MME, MMF, MMG	- UV laser printable, - Light weight, - Arc tracking resistant, - Composite insulation.					●	●		●	●	●	75
MIL-W-16878/4 to 28 MIL-W-22759/5 to 31 MIL-W-22759/32 to 46 MIL-W-22759/80 to 92 MIL-DTL-81381/7 to 22	Aerospace composite wires (see MIL-SPEC Product Selection Catalogue)	●			●	●		●				-

Cables for power transmission

Voltage rating: 600 Volts RMS

Specifications	Description	Maximum operating temperature			Page
		150	180	260	
ASNE 0438 YV	- Flexible nickel plated aluminium wires, - Single core, large sizes.		●		79
ABS 0949 AD AWG 3 to 000	- Arc tracking resistant, - Light weight wires, - Nickel aluminium.		●		35
NSA 935 308 YU	- Flexible aluminium wires, - Polyamide insulation.	●			81

Nacelles and engines: high temperature, fire resistant/fire proof cables

Voltage rating: 600 Volts RMS (except for ESW 1100, 1101, 1102, 1700, 1701, 1702: 200 Volts)

Maximum operating frequency: 2000 Hz

Specifications	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
VG 95218-20 type J	FX 5400	- Single wire, - High temperature, - General purpose.		●			●				85
NSA 935 131 DG / EN 2854-003	-	- Single wire, - High temperature, - General purpose.		●			●				87
BMS 13-58 Type 1 & Type 5	-	- Single wire, - High temperature, - General purpose.		●			●				89
AIR 4524	2100	Flexible cables for high ambient temperatures.	●				●				93
AIR 4524	2102	- Flexible cables for high ambient temperatures, - Lighweight cables.	●				●				95
AIR 4524	2103	Flexible cables for high ambient temperatures.		●			●				97

Nacelles and engines: high temperature, fire resistant/fire proof cables

Voltage rating: 600 Volts RMS (except for ESW 1100, 1101, 1102, 1700, 1701, 1702: 200 Volts)

Maximum operating frequency: 2000 Hz

Specifications	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
AIR 4524	1050	- Screened cables for high ambient temperatures, - Single core and multicore.	●				●	●	●	●	99
AIR 4524	1052	- Screened cables for high ambient temperatures, - Single core and multicore.	●				●	●	●	●	101
AIR 4524	1053	- Screened cables for high ambient temperatures, - Single core and multicore.		●			●	●	●	●	103
MIL W 25038/1 (QPL) (mono) (multi on request)	TMF	High temperature fire resistant wires.		●			●				105
MIL W 25038/3 (QPL) (mono) (multi on request)	TMF VRA-US TMF VR-US	High temperature fire resistant cables.		●			●				107
MIL W 25038/3 (QPL) (mono) (multi on request)	FRM-A-US FRM-US	High temperature fire resistant cables.		●			●				109
MIL W 25038/3, MIL DTL 27500	M27500A** JF + 1 N 06	- High temperature fire resistant, - Single core and multicore.		●			●	●	●	●	111
MIL W 25038/3, MIL DTL 27500	M27500A** JF + N 24	High temperature fire resistant shielded and jacketed cables.		●			●	●	●	●	115
BMS 13-55 Type 2 Class 1	-	High temperature fire resistant wires.		●			●				119
ASNE 0437 DL / EN 2346-003	-	- Fire resistant wire, - Normal weight.		●			●				121
ECS 0741 DW	-	- Fire resistant wire, - Light weight.		●			●				123
ECS 0742 GPA GPB GPC	-	- Fire resistant cable, - Light weight, - Single core and multicore		●			●	●	●	●	125
EN 2346-005 / DW	-	- Fire resistant wire, - Light weight.		●			●				127

Nacelles and engines: high temperature, fire resistant/fire proof cables

Specifications	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300+					
EN 4608-004 / GPA, GPB, GPC	-	- Fire resistant cable, - Light weight, - Single core and multicore.		●			●	●	●	●	129
ESW 1000-010-XXX	-	- Large section, - High temperature wire.		●			●				131
ESW 1100-010-XXX	-	- Filter effect cable, - High temperature wire.		●			●				133
ESW 1101-+++ -XXX	-	- Filter effect cable, - High temperature wire.		●				●			135
ESW 1102-+++ -XXX	-	- Filter effect cable, - High temperature wire, - Single core and multicore.		●			●	●	●	●	137
ESW 1700-010-XXX	-	- Thermocouple, - Filter effect cable, - High temperature wire.		●			●				139
ESW 1701-010-XXX	-	- Thermocouple, - Filter effect cable, - High temperature wire.		●			●				141
ESW 1702-022-XXX	-	- Thermocouple extension, - Filter effect cable, - Twin core.		●				●	●	●	143
ESW 1200-010-XXX ESW 1201-010-XXX	-	Fire resistant cable.		●			●				145
ESW 1202-+++ -XXX ESW 1203-+++ -XXX	-	- Fire resistant cable, - Single core and multicore.		●			●	●	●	●	147
ESW 1250-010-XXX ESW 1251-010-XXX	-	- Fireproof cable, - Single core.		●			●				149
ESW 1252-+++ -XXX ESW 1253-+++ -XXX	-	- Fireproof cable, - Single core and multicore.		●			●	●	●	●	151
ESW 1254-010-002	-	- Fireproof cable, - Single core.		●			●				153
ESW 1254-022-002 ESW 1254-032-002	-	- Fireproof cable, - Two or three twisted cores.		●				●	●	●	155
ESW 1600-010-XXX ESW 1601-010-XXX	-	- Thermocouple, - Fire resistant cable.		●			●				157
ESW 1602-022-XXX	-	- Thermocouple, - Fire resistant cable, - Two twisted cores.		●			●		●	●	159
AIR 4527	3000A	Fire resistant cable.			●		●				161
BMS 13-67	TMF 350-A FLEX SBJ	- Very high temperature, - Fire resistant.				●	●	●	●	●	163
	ET 124585	- Very high temperature, - Fire resistant.				●	●		●	●	167

Coaxial cables for high frequency transmission

For information **MIL C17 specifications**, see our standard catalogue.

Specifications	Nexans reference	Description	Maximum operating temperature			Impedance		Maximum Operating frequency (MHz)	Maximum Operating voltage	Page
			150	200	250	50	75			
KX RG	-	50 and 75 ohms coaxial cables								171
SP 124962	ET 124962	Laser UV miniature coaxial cable	●			●		3000	250	175
SP 132868	ET 132868	Laser UV miniature coaxial cable	●				●	3000	900	177
SP 124964	ET 124964	Laser UV miniature triaxial cable	●			●		3000	250	179
SP 132869	ET 132869	Laser UV miniature triaxial cable	●				●	3000	900	181
EN 4604-003 WZ	-	50 ohms coaxial cable		●		●		3000	1700	183
EN 4604-004 WS	-	50 ohms coaxial cable		●		●		3000	1300	185
EN 4604-005 WL	-	75 ohms coaxial cable		●			●	3000	900	187
EN 4604-006 WM	-	50 ohms coaxial cable		●		●		5000	750	189
EN 4604-007 WN	-	50 ohms coaxial cable		●		●		6000	1000	191
EN 4604-008 WD	-	50 ohms coaxial cable		●		●		8000	1000	193
ECS 0757 KE	-	50 ohms triaxial cable		●		●		3000	250	195
ECS 0745 KC	ET 132954	75 ohms triaxial cable		●			●	3000	500	197
PAN 6422	-	50 ohms coaxial cables, UV laser markable		●		●	●	1000	From 750 to 3700	199
ASNE 0293 XF	-	50 ohms coaxial cable		●		●		3000	1400	201
NSA 935 344 XE	-	50 ohms coaxial cable			●	●		3000	900	203
ASNE 0349 WC	ET 17412	50 ohms triaxial cable			●	●		3000	1400	205

Data bus and high speed transmission cables

Voltage rating: from 250 to 600 Volts RMS

Specifications	Nexans reference	Description	Maximum operating temperature				Impedance (ohms)				Maximum Operating voltage	Page
			125	150	200	260	75	77	100	125		
M17/176-00002	-	Data bus cable			●			●			750	209
ABS 1503 KD 24	ET 2PF870	100 ohms, shielded quad	●						●		-	211
SP 124960	ET 124960	Data bus cable		●				●			250	213
SP 124961	ET 124961	Data bus cable		●				●			250	215
SP 96770 ASNE 0479 WJ EN 3375-004B	ET 96770-01 ET 96770-02	Data bus cable		●				●			250	217
PAN 6421 ZA002	ET 65529	Data bus cable		●				●			600	219
ASNE 0259 HE	ET 63247	Data bus cable		●						●	600	221
Honeywell P7500579	ET 69654	Data bus cable		●						●	600	223
ASNE 0849 HJ 26	ET 124843	Twinaxial cable high immunity			●		●				600	225
SP 554	ET 61333	Data bus cable			●		●				600	227
SP 69899 ASNE 0811 WY	ET 69899-01 ET 69899-02	Data bus cable			●			●			250	229
ABS 0386 WF	ET 96897	Data bus cable			●				●		600	231
SP 69794 EN 3375-004-C WJ	ET 69794-01 ET 69794-02	Data bus cable			●			●			600	233
SP 69342 EN 3375-005-C WV	ET 69342	High immunity data bus			●			●			250	235
EN 3375-006-D / ASNE 0290 XM	-	Data bus cable			●			●			600	237
EN 3375-007-C WW/ ECS 0700	ET 132041	Data bus cable			●			●			250	239
EN 4608-005-B 002 GPB24	-	Fireproof data bus cable				●				● (120)	600	241

Special cables

Specifications	Nexans reference	Description	Maximum operating temperature		Maximum Operating voltage	Page
			200	260		
	ET 124401	Low noise screened pair cable, transmission cable		●	600	245
NSA 935306 YK	ET 86891	Low noise screened pair cable, transmission cable		●	600	247
ESW 1404-022-006	ET 124762	Low noise screened pair cable, transmission cable		●	600	249
ESW 1405-024-006	ET 132057	Low noise screened pair cable, transmission cable		●	600	251
CAS 85-22 CAS 250-20P CAS 250-20SP CAS 250-22	ET 87067 ET 87208 ET 87209 ET 87068	Low noise coaxial cable	●		-	253
MBBN 3320 YH + + + /EN 4049	ET 96532 ET 96533	Thermocouple extension. Nickel chromium/nickel aluminium		●	600	255
ASNE 0409 BG ASNE 0410 SU ASNE 0411 TV ASNE 0412 VF	-	Flight test wire, UV laser printable.	●		600	257
SATCOM CORDS	-	Available on request : application at 1.6 GHZ	-	-	-	-

Optical cable

Maximum operating temperature: 125°C

Specifications	Nexans reference	Description	Insulation	Sheath	Page
ABS 0963-003 LF	ET 132126	Multimode fibre optic cable	Zero halogen copolymer, high temperature	Polymer aromatic fibre braid + zero halogen	261

Wires and cables for avionics

Specifications	Description	Maximum operating temperature	Single core	Multi-core	Insulation	Page
KZ 04 KZ 05 KZ 06	• Unscreened hook-up wires, • High temperature	200°C	●		PTFE	269
KZ 55 KZ 57 KZ 59	• Screened and jacketed hook-up wires, • High temperature	200°C	●		PTFE	271
KZ 67 KZ 69 KZ 71	• Screened and jacketed pairs, • High temperature	200°C		●	PTFE	273
KZ 79 KZ 81 KZ 83	• Screened and jacketed triples, • High temperature	200°C		●	PTFE	275
ETF, EF, EEF	• Unscreened hook-up wires, • High temperature	200°C	●		PTFE	277

These examples represent an overview of our expertise. Indeed, our development and design engineers are at your disposal to provide their experience in customising any of our products to meet your specific requirements.

Part 1

Hook-up wires for Civil, Military Aircraft and Helicopters

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Type " JN 1007 " Flexible Light Weight Wires Unscreened and Unsheathed Single Core Types

150°C Operating Temperature Light Weight Arc Tracking Resistant Cables

Characteristics

- ☐ Voltage rating : 600 Volts RMS
- ☐ Operating temperature : -65°C to +150°C.(Ambient + Rise)
- ☐ Operating frequency : up to 2000 Hz
- ☐ Dimensions and weight : see table on reverse of this data sheet
- ☐ Very Good Resistance to Aircraft Fluids
- ☐ Arc Tracking Resistant

Identification

- ☐ Colours : White (Size 004 : Pale blue)
- ☐ Marking : JN1007 CH *** FR F ++
 *** = Size code
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex)
 ++ = Year of Production (i.e. 99 = 1999)

PRODUCT REFERENCES

JN1007

JN1018

JN1019

CONSTRUCTION

CONDUCTOR

- ① Stranded Conductor Made up of Nickel plated Copper.
Size code 002 is High strength copper alloy conductor.

INSULATION

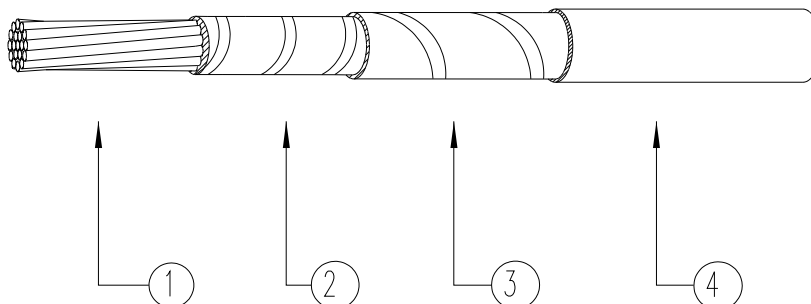
- ② PTFE Tape
- ③ Polyimide Tape
- ④ UV Laser markable
FEP Lacquer Top coat

Applications

- ☐ Designed for general Purpose Aircraft Wiring Applications.

Specifications

- ☐ EUROFIGHTER SPE-J-920-A-0061
- ☐ EFA : J61.010



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Conductor			Finished Wire			
JN 1007		Stranding (Nbr x Diam. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Maximum Weight (g/m)
			Mini. (mm)	Maxi. (mm)		Mini. (mm)	Max. (mm)	
JN 1007 CH 002	24	19 x 0.12	0.55	0.59	114	0.93	1.03	2.75
JN 1007 CH 004	22	19 x 0.15	0.70	0.74	60	1.08	1.18	4.05
JN 1007 CH 006	20	19 x 0.20	0.94	0.99	33.20	1.30	1.41	6.70
JN 1007 CH 010	18	19 x 0.25	1.18	1.24	21.10	1.54	1.66	9.90
JN 1007 CH 012	16	19 x 0.30	1.41	1.49	14.50	1.78	1.91	13.8
JN 1007 CH 020	14	19 x 0.25	1.65	1.74	10.90	2.02	2.16	18.3
JN 1007 CH 030	12	37 x 0.32	2.12	2.22	6.80	2.47	2.62	29.0



Filotex®

Type " JN 1018 " Flexible Light Weight Wires Unscreened and Sheathed multicore Types

150°C Operating Temperature Light Weight Arc Tracking Resistant Cables

Characteristics

- ☐ Voltage rating : 600 Volts RMS
- ☐ Operating temperature : -65°C to +150°C.(Ambient + Rise)
- ☐ Operating frequency : up to 2000 Hz
- ☐ Dimensions and weight : see table on reverse of this data sheet
- ☐ Very Good Resistance to Aircraft Fluids
- ☐ Arc Tracking Resistant

Identification

- ☐ Core Colours
- ☐ Sheat colours and Marking : see table on reverse of this data sheet

FR = Country of Origin (FR = France)

Applications

- ☐ Designed for aeneral Purpose Aircraft Wirina Applications

Specifications

- ☐ EUROFIGHTER SPE-J-920-A-0061
- ☐ EFA : J61.014

PRODUCT REFERENCES

JN1018

JN1007

JN1019

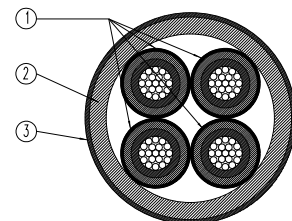
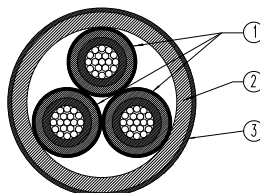
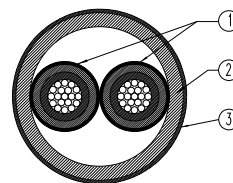
CONSTRUCTION

CORES

- ① Type JN 1007

JACKET

- ② Polyimide Tapes
- ③ UV Laser markable
FEP Lacquer Top coat



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1018	US AWG	Nbr of Cores	Finished Cable			
			Diameter (mm)		Weight (Kg/Km)	Resistance at 20°C (68°F) of Cores (Ohms/Km)
			Min	Max.	Max.	Max.
JN 1018 PC 002	24	2	2.14	2.30	6.95	116.28
JN 1018 PC 004	22	2	2.44	2.60	9.80	61.2
JN 1018 PC 006	20	2	2.90	3.06	15.40	33.9
JN 1018 PC 010	18	2	3.38	3.55	22.30	21.5
JN 1018 PC 012	16	2	3.86	4.04	30.50	14.8
JN 1018 PC 020	14	2	4.34	4.53	39.70	11.1
JN 1018 PC 030	12	2	5.26	5.46	62.10	6.94
JN 1018 QC 002	24	3	2.29	2.47	9.95	116.28
JN 1018 QC 004	22	3	2.61	2.77	14.20	61.2
JN 1018 QC 006	20	3	3.11	3.27	22.50	33.9
JN 1018 QC 010	18	3	3.63	3.80	32.70	21.5
JN 1018 QC 012	16	3	4.15	4.33	44.90	14.8
JN 1018 QC 020	14	3	4.66	4.85	58.70	11.1
JN 1018 QC 030	12	3	5.66	5.86	91.80	6.94
JN 1018 RC 002	24	4	2.52	2.68	13.00	116.28
JN 1018 RC 004	22	4	2.88	3.04	18.60	61.2
JN 1018 RC 006	20	4	3.44	3.60	29.70	33.9
JN 1018 RC 010	18	4	4.01	4.18	43.10	21.5
JN 1018 RC 012	16	4	4.59	4.77	59.40	14.8
JN 1018 RC 020	14	4	5.17	5.36	77.80	11.1
JN 1018 RC 030	12	4	6.28	6.48	122.00	6.94

Core identification Colours :

Two cores : Red - Blue
 Three cores : Red - Blue - Yellow
 Four cores : Red - Blue - Yellow - Green.

External identification :

White with exception of size 004 : Pale blue)

Marking : JN1018 xx *** FR F ++

xx = Type code (PC or QC or QC)

FR = Country of Origin (FR = France)

++ = Year of Production (i.e. 99 = 1999)

*** = Size code (002,004,006...etc...)

F = Manufacturer

(F = Filotex)

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 **nexans**



Filotex®

Type " JN 1019 " Flexible Light Weight Wires Screened and Sheathed single and multicores Types

150°C Operating Temperature Light Weight Arc Tracking Resistant Cables

Characteristics

- ☐ Voltage rating : 600 Volts RMS
- ☐ Operating temperature : -65°C to +150°C.(Ambient + Rise)
- ☐ Operating frequency : up to 2000 Hz
- ☐ Dimensions and weight : see table on reverse of this data sheet
- ☐ Very Good Resistance to Aircraft Fluids
- ☐ Arc Tracking Resistant

Identification

- ☐ Core Colours
- ☐ Sheat colours and Marking : see table on reverse of this data sheet

FR = Country of Origin (FR = France)

Applications

Specifications

- ☐ EUROFIGHTER SPE-J-920-A-0061
- ☐ EFA : J61.015

PRODUCT REFERENCES

JN1019

JN1007

JN1018

CONSTRUCTION

CORES

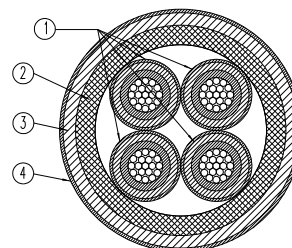
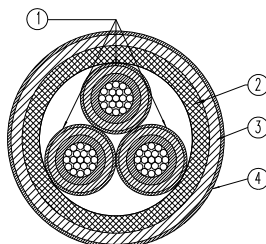
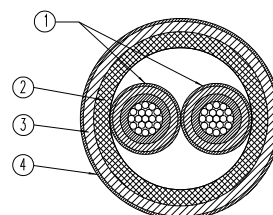
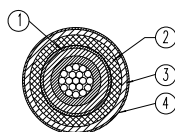
- ① Type JN 1007

SCREEN

- ② Nickel Copper Braided Screen

JACKET

- ③ Polyimide Tapes
- ④ UV Laser markable FEP Lacquer Top coat



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1019	US AWG	Nbr of Cores	Screen		Finished Cable			
			Strands	O.D.	Diameter		Weight	Resistance at
			AWG Size	(mm) Nom.	(mm)		(Kg/Km)	20°C (68°F) of Cores (Ohms/Km)
					Min	Max.	Max.	Max.
JN 1019 SK 002	24	1	40	1.32	1.56	1.70	6.95	114
JN 1019 SK 004	22	1	40	1.47	1.71	1.85	8.85	60
JN 1019 SK 006	20	1	40	1.77	1.94	2.08	12.20	33.20
JN 1019 SK 010	18	1	38	2.01	2.18	2.33	16.30	21.10
JN 1019 SK 012	16	1	38	2.26	2.42	2.58	21.00	14.50
JN 1019 SK 020	14	1	38	2.50	2.66	2.80	26.30	10.90
JN 1019 SK 030	12	1	38	2.98	3.12	3.26	38.50	6.80
JN 1019 TB 002	24	2	40	2.32	2.49	2.67	12.00	116.28
JN 1019 TB 004	22	2	40	2.62	2.79	2.97	15.60	61.2
JN 1019 TB 006	20	2	38	3.14	3.25	3.44	22.40	33.9
JN 1019 TB 010	18	2	38	3.62	3.73	3.93	30.20	21.5
JN 1019 TB 012	16	2	38	4.12	4.21	4.42	39.50	14.8
JN 1019 TB 020	14	2	38	4.60	4.69	4.91	49.80	11.1
JN 1019 TB 030	12	2	38	5.56	5.61	5.84	74.10	6.94
JN 1019 UJ 002	24	3	40	2.47	2.64	2.82	16.00	116.28
JN 1019 UJ 004	22	3	40	2.79	2.96	3.14	21.10	61.2
JN 1019 UJ 006	20	3	38	3.35	3.46	3.64	30.60	33.9
JN 1019 UJ 010	18	3	38	3.86	3.98	4.18	42.00	21.5
JN 1019 UJ 012	16	3	38	4.40	4.50	4.72	55.60	14.8
JN 1019 UJ 020	14	3	38	4.91	5.02	5.26	70.60	11.1
JN 1019 UJ 030	12	3	38	5.95	6.01	6.28	106.00	6.94
JN 1019 VG 002	24	4	40	2.72	2.87	3.07	20.00	116.28
JN 1019 VG 004	22	4	40	3.08	3.23	3.43	26.50	61.2
JN 1019 VG 006	20	4	38	3.69	3.79	3.99	39.00	33.9
JN 1019 VG 010	18	4	38	4.26	4.37	4.59	54.00	21.5
JN 1019 VG 012	16	4	38	4.86	4.97	5.16	71.90	14.8
JN 1019 VG 020	14	4	38	5.44	5.52	5.76	91.70	11.1
JN 1019 VG 030	12	4	38	6.59	6.63	6.90	139.00	6.94

Core identification Colours :

One core (SK) : White with exception of size 004 : Pale blue
 Two cores (TB) : Red - Blue
 Three cores (UJ) : Red - Blue - Yellow
 Four cores (VG) : Red - Blue - Yellow - Green.

External identification : White with exception of size 004 : Pale blue

Marking : JN1019 xx *** FR F ++

xx = Type code (SK, TB, UJ or VG)
 FR = Country of Origin (FR = France)
 ++ = Year of Production (i.e. 97 = 1997)

*** = Size code (002,004,006...etc...)
 F = Manufacturer (F = Filotex)

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 Fax : + 33 1 69 42 05 70

 **nexans**



JN 1026

Screened and Sheathed single and multicore Types

260°C Operating Temperature

Characteristics

- ❑ Voltage rating : 600 Volts RMS
- ❑ Operating temperature : -65°C to +260°C.(Ambient + Rise)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weight : see table on page 2
- ❑ Transfer Impedance : see table on page 3
- ❑ Very Good Resistance to Aircraft Fluids

Identification

- ❑ Core Colours and marking : see on page 3

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications when ECM is required

PRODUCT REFERENCES

JN1026
PAN 6411

CONSTRUCTION

CORES

- ① Type PAN 6411

SCREEN

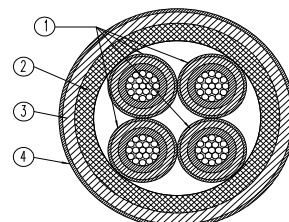
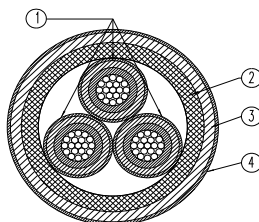
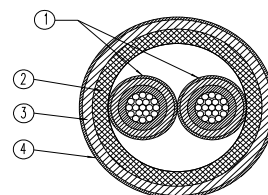
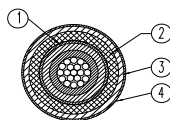
- ② Optimized Nickel Copper Braided Screen

JACKET

- ③ Polyimide Tapes
- ④ UV Laser markable PTFE tape

Specifications

- ❑ PANAIA SPECIFICATION SP-P-99300-00-P
- ❑ EUROFIGHTER JN 1026/J61.016
- ❑ EUROFIGHTER J61.011 (Basic core)
- ❑ EUROFIGHTER J56.010 (EMC Requirement)



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1019	US AWG	Nbr of Cores	Screen		Finished Cable			
			Strands	O.D.	Diameter		Weight	Resistance at
			AWG Size	(mm) Nom.	(mm)		(Kg/Km)	20°C (68°F) of Cores (Ohms/Km)
					Nom.	Max.	Max.	Max.
JN 1026 SV 002	24	1	40	1.41	1.74	2.03	8.80	114.7
JN 1026 SV 004	22	1	40	1.55	1.88	2.19	10.8	58.80
JN 1026 SV 006	20	1	40	1.78	2.11	2.46	14.9	32.80
JN 1026 SV 010	18	1	38	2.11	2.44	2.72	19.4	20.80
JN 1026 SV 012	16	1	38	2.35	2.68	2.98	24.7	14.40
JN 1026 SV 020	14	1	38	2.59	2.92	3.35	31.7	10.60
JN 1026 SV 030	12	1	38	3.07	3.44	3.83	44.6	6.60
JN 1026 PV 002	24	2	38	2.58	2.91	3.18	15.5	116.99
JN 1026 PV 004	22	2	38	2.86	3.19	3.52	19.7	60
JN 1026 PV 006	20	2	38	3.32	3.65	4.04	27.6	33.5
JN 1026 PV 010	18	2	38	3.82	4.19	4.57	36.4	21.2
JN 1026 PV 012	16	2	38	4.30	4.67	5.09	47.0	14.7
JN 1026 PV 020	14	2	38	4.78	5.15	5.89	61.9	10.8
JN 1026 PV 030	12	2	36	5.82	6.19	6.86	88.3	6.73
JN 1026 QV 002	24	3	38	2.75	3.08	3.36	19.8	116.99
JN 1026 QV 004	22	3	38	3.05	3.38	3.72	25.7	60
JN 1026 QV 006	20	3	38	3.55	3.92	4.28	36.5	33.5
JN 1026 QV 010	18	3	38	4.09	4.46	4.84	49.4	21.2
JN 1026 QV 012	16	3	36	4.67	5.04	5.41	64.6	14.7
JN 1026 QV 020	14	3	36	5.19	5.56	6.26	85.7	10.8
JN 1026 QV 030	12	3	36	6.22	6.59	7.30	124	6.73
JN 1026 RV 002	24	4	38	3.05	3.36	3.65	24.3	116.99
JN 1026 RV 004	22	4	38	3.37	3.74	4.06	31.9	60
JN 1026 RV 006	20	4	38	3.92	4.30	4.69	46.1	33.5
JN 1026 RV 010	18	4	36	4.61	4.98	5.32	62.8	21.2
JN 1026 RV 012	16	4	36	5.19	5.56	6.02	83.6	14.7
JN 1026 RV 020	14	4	36	5.77	6.14	6.91	110	10.8
JN 1026 RV 030	12	4	36	6.93	7.30	8.07	160	6.73

BASIC CORE PAN 6411/J61.011

Wire type PAN 6411	Cond. Size mm²	N° of strands	Diameter of strands	Conductor dia.		Finished wire			Resistance at 20°C Ohms/km
						Diameter		Mass kg/km	
						Min.	Max.	Min.	
DP 002	0.208	19	0.118	0.59	0.63	1.00	1.16	3.55	114.7
DP 004	0.336	19	0.15	0.75	0.79	1.16	1.32	4.90	58.80
DP 006	0.597	19	0.20	1.00	1.04	1.35	1.55	7.70	32.80
DP 010	0.933	19	0.25	1.25	1.29	1.60	1.80	11.30	20.80
DP 012	1.34	19	0.30	1.50	1.55	1.85	2.05	15.80	14.40
DP 020	1.82	37	0.25	1.75	1.81	2.10	2.40	21.00	10.60
DP 030	2.91	37	0.315	2.21	2.27	2.55	2.90	32.00	6.60

MAXIMUM TRANSFER IMPEDANCE VALUES (mΩ/m)

Size code	Single core	Two core cable	Three core cable	Four core cable
JN 1026	(SV)	(PV)	(QV)	(RV)
002	70,00	60,00	50,00	45,00
004	70,00	50,00	45,00	35,00
006	60,00	35,00	30,00	25,00
010	50,00	35,00	25,00	25,00
012	40,00	25,00	20,00	20,00
020	35,00	20,00	18,00	18,00
030	35,00	20,00	18,00	18,00

Core identification Colours :

One core (SV) : White
 Two cores (PV) : Red - Blue
 Three cores (QV) : Red - Blue - Yellow
 Four cores (RV) : Red - Blue - Yellow - Green.

External identification :

Outer jacket colour : White
 Marking green colour : JN1026 xx *** FR F ++

xx = Type code (SV, PV, QV or RV)
 *** = Size code (002,004,006...)
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex)
 ++ = Year of Production (i.e. 03 = 2003)

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FX 5301 VG 95218-20 type H Single wire

PRODUCT REFERENCES

FX 5301

FX 5303
FX 5400
FX 5401
FX 5403

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor
Made of Silver Plated
Copper or
High Strength copper
alloy (size 002)

INSULATION

- ② PTFE tape

③ Polyimide tape

④ UV Laser markable FEP
Lacquer Top coat.

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Temperature rating : -65°C / +150°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

Identification

- Colours : White (Size 004 : Pale Blue)
- Marking : VG95218T020H**£ F 0241 ++ AC

** = Dash N°

£ = Colour (9 = White A = Pale blue)

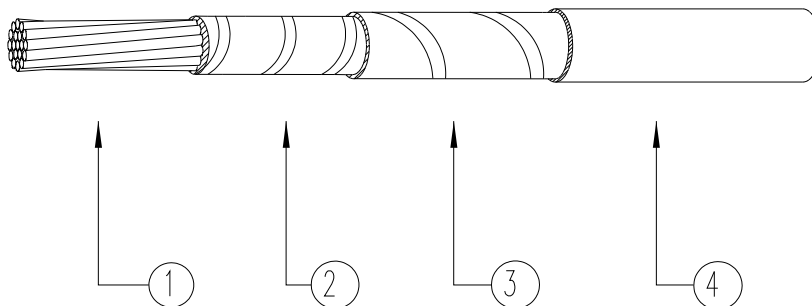
++ = Year of production (ie. : 00 = 2000)

AC = Cable code according to TR 6058

F 0241 = Manufacturer's Cage code

Specifications

- VG 95218-2 (May 1998)
- VG 95218-20 (Feb 2000)



DIMENSIONS AND WEIGHTS (Metric Units)

TYPE H : Single core silver plated copper or copper alloy conductor.

VG Reference	NEXANS Part Number	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Conductor		
					Stranding Nbr x Diam of strands (mm)	Diameter	
						Min. (mm)	Max. (mm)
VG 95218T020H019	FX 5301-002	01	002	24	19 x 0.12	0.55	0.62
VG 95218T020H02A	FX 5301-004	02	004	22	19 x 0.15	0.70	0.80
VG 95218T020H039	FX 5301-006	03	006	20	19 x 0.20	0.94	1.04
VG 95218T020H049	FX 5301-010	04	010	18	19 x 0.25	1.18	1.29
VG 95218T020H059	FX 5301-012	05	012	16	19 x 0.30	1.39	1.53
VG 95218T020H069	FX 5301-020	06	020	14	37 x 0.25	1.68	1.82
VG 95218T020H079	FX 5301-030	07	030	12	37 x 0.32	2.12	2.28

(1) = For Information only.

Finished Wire			
Diameter		Weight	Maximum DC Resistance at 20°C (68°F) (Ohms/Km)
Min. (mm)	Max. (mm)	Max. (g/m)	
0.98	1.08	3.23	106
1.12	1.24	4.59	55.3
1.33	1.47	7.29	31
1.58	1.72	10.69	19.6
1.81	1.97	14.86	13.6
2.07	2.19	19.43	10.2
2.53	2.69	30.83	6.4



Filotex®

FX 5303

VG 95218-22 type E

Single core shielded and jacketed

VG 95218-23 type D

Multi core shielded and jacketed

PRODUCT REFERENCES

FX 5303

CONSTRUCTION

CORES

- ① FX 5301

SCREEN

- ② Silver Plated copper
Braided screen

JACKET

- ③ Polyimide tapes
④ UV Laser markable FEP
Lacquer Top coat.

Applications

Designed for general Purpose Aircraft Wiring Applications.

Main data

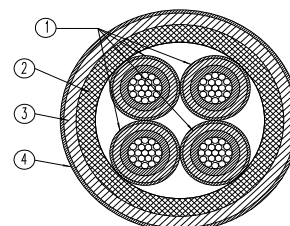
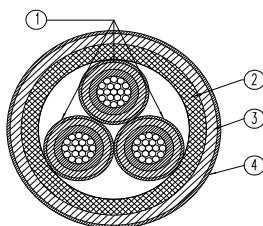
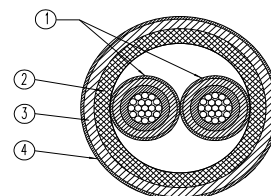
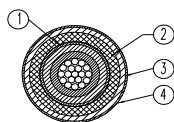
- ❑ Temperature rating : -65°C / +150°C (Ambiant. + Rise.)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : see table on page 2.
- ❑ Very good resistance to Aircraft Fluids.
- ❑ Arc Tracking Resistant

Identification

- ❑ Core colour }
- ❑ Jacket colour } see page 2.
- ❑ Marking }

Specifications

- ❑ VG 95218-2 (May 1998)
- ❑ VG 95218-22 (October 1999)
- ❑ VG 95218-23 (October 1999)



DIMENSIONS AND WEIGHTS (Metric Units)

TYPE E : Single core shielded and jacketed

TYPE D : Multi cores shielded and jacketed

VG Reference	NEXANS Part Number	Nbr. Of Cores	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Diam.of Screen strand (mm)	Finished Wire			
							Diameter		Weight	Max. DC
							Min. (mm)	Max. (mm)	Max. (g/m)	Resistance at 20°C (68°F) (Ohms/Km)
VG 95218T022E001	FX 5303-1-002	1	001	002	24	0.08	1.52	1.68	7.04	106
VG 95218T022E002	FX 5303-1-004	1	002	004	22	0.08	1.66	1.85	8.85	55.3
VG 95218T022E003	FX 5303-1-006	1	003	006	20	0.08	1.87	2.08	12.2	31
VG 95218T022E004	FX 5303-1-010	1	004	010	18	0.10	2.21	2.39	17.56	19.6
VG 95218T022E005	FX 5303-1-012	1	005	012	16	0.10	2.44	2.64	22.59	13.6
VG 95218T022E006	FX 5303-1-020	1	006	020	14	0.10	2.70	2.86	27.94	10.2
VG 95218T022E007	FX 5303-1-030	1	007	030	12	0.10	3.16	3.36	41.06	6.4
VG 95218T023D001	FX 5303-2-002	2	001	002	24	0.08	2.47	2.73	12.27	109.2
VG 95218T023D002	FX 5303-2-004	2	002	004	22	0.08	2.76	3.05	15.77	57
VG 95218T023D003	FX 5303-2-006	2	003	006	20	0.10	3.25	3.59	23.97	31.9
VG 95218T023D004	FX 5303-2-010	2	004	010	18	0.10	3.76	4.08	32.29	30.2
VG 95218T023D005	FX 5303-2-012	2	005	012	16	0.10	4.22	4.58	42.20	14.0
VG 95218T023D006	FX 5303-2-020	2	006	020	14	0.10	4.73	5.03	52.81	10.5
VG 95218T023D007	FX 5303-2-030	2	007	030	12	0.10	5.66	6.02	78.85	6.6
VG 95218T023D008	FX 5303-3-002	3	008	002	24	0.08	2.61	2.89	16.44	109.2
VG 95218T023D009	FX 5303-3-004	3	009	004	22	0.08	2.93	3.23	21.45	57
VG 95218T023D010	FX 5303-3-006	3	010	006	20	0.10	3.45	3.81	32.85	31.9
VG 95218T023D011	FX 5303-3-010	3	011	010	18	0.10	4.00	4.34	44.90	30.2
VG 95218T023D012	FX 5303-3-012	3	012	012	16	0.10	4.50	4.88	59.32	14.0
VG 95218T023D013	FX 5303-3-020	3	013	020	14	0.10	5.04	5.36	74.82	10.5
VG 95218T023D014	FX 5303-3-030	3	014	030	12	0.10	6.05	6.43	113.00	6.6
VG 95218T023D015	FX 5303-4-002	4	015	002	24	0.08	2.86	3.16	20.61	109.2
VG 95218T023D016	FX 5303-4-004	4	016	004	22	0.08	3.20	3.54	27.13	57
VG 95218T023D017	FX 5303-4-006	4	017	006	20	0.10	3.78	4.18	41.74	31.9
VG 95218T023D018	FX 5303-4-010	4	018	010	18	0.10	4.41	4.77	57.51	30.2
VG 95218T023D019	FX 5303-4-012	4	019	012	16	0.10	4.96	5.38	76.43	14.0
VG 95218T023D020	FX 5303-4-020	4	020	020	14	0.10	5.58	5.92	96.83	10.5
VG 95218T023D021	FX 5303-4-030	4	021	030	12	0.10	6.69	7.11	147.14	6.6

(1) = For Information only

COLOUR and MARKING :

<u>SINGLE CORE SHIELDED AND JACKETED (TYPE E) :</u>	
Core colour	Marking on Jacket :
White (with exception of size 004 : Pale Blue)	White (with exception of size 004 : Pale Blue)
	Marking : VG95218T022E*** F 0241 ++ GE

<u>MULTI CORE SHIELDED AND JACKETED (TYPE D) :</u>	
Core Identification	Marking on Jacket :
White (with exception of size 004 : Pale Blue)	White (with exception of size 004 : Pale Blue)
Marking with coloured arabic digits printed on the core and a dash placed under-neath it : Core number 1 : digit = <u>1</u> - Core number 2 : digit = <u>2</u> ...and so on	Marking : VG95218T023D*** F 0241 ++ ##

*** = Dash number (VG)

++ = Year of production (ie. : 00 = 2000)

= Cable code according to TR 6058 : GF = 2 cores GG = 3 cores GH = 4 cores

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 nexans



ABS 0949 - AD

AWG 24 to 4

Nickel Copper Clad Aluminium Alloy

Conductors

UV laser printable

PRODUCT REFERENCES

ABS 0949 AD **

CONSTRUCTION

CONDUCTOR

① AWG 24 and 22

1 nickel plated copper alloy
wire +6 nickel copper clad
aluminium alloy wire

AWG 20 to 8

Nickel copper clad aluminium
alloy concentric conductor

AWG 6 and 4

Nickel copper clad aluminium
alloy rope-lay conductor

INSULATION

② High performance polyimide tape

③ Special UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

- ❑ Standard Colour : Grey
- ❑ Marking : Green for AWG22, Blue for other gauges
- ❑ Wording : AD ** FRF++
** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++ = Year of Production (ie. 00 = 2000)

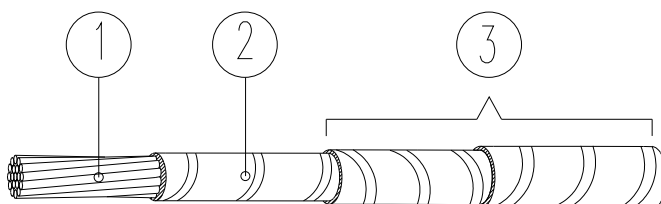
Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ ABS 0957 (conductors)
- ❑ ABS 0958 (Technical specification)
- ❑ ABS 0949 AD (Product specification)
- ❑ AIRBUS ABD0031, issue E, specification for 15 and 30 seconds flame application periods
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1

Filotex® ABS 0949 AD



DIMENSIONS AND WEIGHTS (Metric Units)

Nexans References	AWG	Conductor			Finished wire				
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
		(Nbr x mm)	Mini. (mm)	Maxi. (mm)		Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 24	24	7 x 0.20	0.56	0.58	145	0.85	0.96	1.70	1.75
ABS 0949 AD 22	22	7 x 0.25	0.71	0.73	90.2	1.00	1.10	2.37	2.50
ABS 0949 AD 20	20	19 x 0.20	0.94	0.97	49.6	1.22	1.34	3.55	3.65
ABS 0949 AD 18	18	19 x 0.25	1.19	1.22	33.2	1.46	1.61	5.14	5.45
ABS 0949 AD 16	16	19 x 0.30	1.41	1.45	23	1.76	1.92	7.37	7.60
ABS 0949 AD 14	14	37 x 0.25	1.69	1.73	15.5	2.04	2.24	9.91	10.94
ABS 0949 AD 12	12	37 x 0.32	2.13	2.18	10.9	2.50	2.70	14.12	15.10
ABS 0949 AD 10	10	61 x 0.32	2.73	2.77	5.8	3.09	3.33	22.20	24.02
ABS 0949 AD 8	8	7 X 19 X 0.30	3.55	3.85	3.8	4.10	4.40	37.94	39.00
ABS 0949 AD 6	6	7 x 10 x 0.51	4.8	5.2	2.3	5.30	5.70	62.52	63.70
ABS 0949 AD 4	4	7 x 15 x 0.51	5.90	6.30	1.5	6.60	7.40	93.50	96.30



ABS 0949 - AD AWG 3 to 000

Filotex®

Nickel Plated Aluminium Alloy Conductors UV laser printable

PRODUCT REFERENCES

ABS 0949 AD **

CONSTRUCTION

CONDUCTOR

- ① Nickel plated aluminium rope-lay conductor

INSULATION

- ② High performance polyimide tape
- ③ Special UV PTFE Tape

Characteristics

- ☐ Voltage rating : 600 Volts RMS.
- ☐ Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- ☐ Operating frequency : up to 2000 Hz
- ☐ Dimensions and weights : see table on this data sheet
- ☐ Very Good Resistance to Aircraft Fluids
- ☐ Mould and Fungus Resistant
- ☐ Arc Tracking Resistant

Identification

- ☐ Standard Colour : Grey
- ☐ Marking : Blue
- ☐ Wording : AD ** FRF++
** = AWG

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
++ = Year of Production (ie. 00 = 2000)

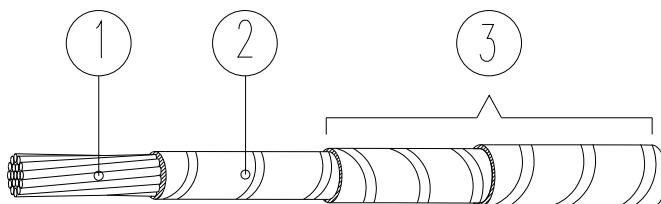
Applications

- ☐ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ☐ ABS 0957 (conductors)
- ☐ ABS 0958 (Technical specification)
- ☐ ABS 0949 AD (Product specification)
- ☐ AIRBUS ABD0031, issue E specification for 15 and 30 second flame application periods
- ☐ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ☐ EN 3475-407, Method 1

Filotex® ABS 0949 AD

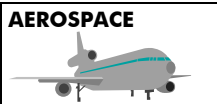


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DIMENSIONS AND WEIGHTS (Metric Units)

Nexans References	AWG	Conducteur			Finished wire				
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
		(Nbr x mm)	Mini. (mm)	Maxi. (mm)		Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 3	3	7 x 19 x 0.51	6.5	7.1	1.18	7.28	7.74	91.26	94.00
ABS 0949 AD 2	2	7 x 24 x 0.51	7.4	8.0	0.94	8.07	8.57	113.1	116.5
ABS 0949 AD 1	1	7 x 30 x 0.51	8.3	8.9	0.75	8.94	9.50	139.17	143.5
ABS 0949 AD 0	0	19 x 14 x 0.51	9.7	10.3	0.60	10.29	10.93	175.81	181.0
ABS 0949 AD 00	00	19 x 18 x 0.51	11.1	11.7	0.43	11.65	12.37	222.96	230.0
ABS 0949 AD 000	000	19 x 22 x 0.51	12.4	13	0.36	12.91	13.71	267.57	276.0



Filotex®

ABS 1354 Multicores Ni. Copper Clad Alu. (AWG 24 to 4) Multicores Aluminium alloy (AWG 3 to 000)

PRODUCT REFERENCES

ABS 1354 AD+ **

CONSTRUCTION

CORES

2, 3 or 4 Cores
ABS 0949 ADA

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

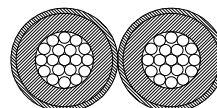
Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

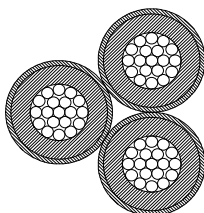
Specifications

- ❑ ABS1354 Product Standard
- ❑ ABS0958 Technical Specification
- ❑ AIRBUS ABD0031, issue E specification for 15 and 30 second flame application periods
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1

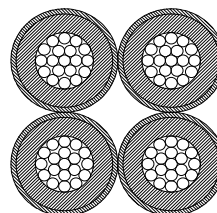
ADB



ADC



ADD



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Nbr of Cores	Finished Wire					
			Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter		Weight	
					(mm)		(g/m)	
					Nom.	Max.	Nom.	Max.
ABS 1354 ADB	24	2	1 Red 1 Blue	149.4	1.78	1.9	3.47	3.70
ABS 1354 ADB	22	2		92.9	2.04	2.16	4.83	5.27
ABS 1354 ADB	20	2		51.1	2.58	2.75	7.24	7.53
ABS 1354 ADB	18	2		34.2	3.08	3.25	10.49	10.91
ABS 1354 ADB	16	2		23.7	3.70	3.85	15.03	15.63
ABS 1354 ADB	14	2		16	4.30	4.47	20.22	21.03
ABS 1354 ADB	12	2		11.2	5.12	5.31	28.80	30.07
ABS 1354 ADB	10	2		6	6.34	6.98	45.29	51.94
ABS 1354 ADB	8	2		3.91	8.58	8.92	77.4	80.5
ABS 1354 ADB	6	2		2.37	11.0	11.44	127.54	132.64
ABS 1354 ADB	4	2		1.55	13.42	13.96	190.74	198.37
ABS 1354 ADB	3	2		1.22	15.02	15.62	186.17	193.62
ABS 1354 ADB	2	2		0.97	16.64	17.31	230.72	239.95
ABS 1354 ADB	1	2		0.77	18.44	18.99	283.91	295.27
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.99
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.03
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	567.68
ABS 1354 ADC	24	3	1 Red 1 Blue 1 Yellow	149.4	1.92	2.04	5.20	5.55
ABS 1354 ADC	22	3		92.9	2.20	2.33	7.25	7.91
ABS 1354 ADC	20	3		51.1	2.78	2.96	10.86	11.29
ABS 1354 ADC	18	3		34.2	3.32	3.49	15.73	16.36
ABS 1354 ADC	16	3		23.7	3.99	4.15	22.55	23.45
ABS 1354 ADC	14	3		16	4.63	4.83	30.32	31.54
ABS 1354 ADC	12	3		11.2	5.52	5.73	43.21	45.10
ABS 1354 ADC	10	3		6	6.83	7.53	67.93	77.91
ABS 1354 ADC	8	3		3.91	9.24	9.61	116.10	120.74
ABS 1354 ADC	6	3		2.37	11.85	12.32	191.31	198.96
ABS 1354 ADC	4	3		1.55	14.46	15.04	286.11	297.55
ABS 1354 ADC	3	3		1.22	16.18	16.83	279.26	290.43
ABS 1354 ADC	2	3		0.97	17.93	18.65	346.09	359.93
ABS 1354 ADC	1	3		0.77	19.87	20.66	425.86	442.89
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.5
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	709.55
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	851.51

ABS 1354 ADD	24	4	1 Red 1 Blue 1 Yellow 1 Green	149.4	2.15	2.28	6.94	7.41
ABS 1354 ADD	22	4		92.9	2.46	2.61	9.67	10.54
ABS 1354 ADD	20	4		51.1	3.11	3.32	14.48	15.06
ABS 1354 ADD	18	4		34.2	3.72	3.92	20.97	21.81
ABS 1354 ADD	16	4		23.7	4.47	4.65	30.07	31.27
ABS 1354 ADD	14	4		16	5.19	5.40	40.43	42.05
ABS 1354 ADD	12	4		11.2	6.18	6.42	57.61	60.13
ABS 1354 ADD	10	4		6	7.65	8.43	90.58	103.89
ABS 1354 ADD	8	4		3.91	10.36	10.77	154.8	160.99
ABS 1354 ADD	6	4		2.37	13.28	13.81	255.08	265.28
ABS 1354 ADD	4	4		1.55	16.20	16.85	381.48	396.74
ABS 1354 ADD	3	4		1.22	18.13	18.86	372.34	387.23
ABS 1354 ADD	2	4		0.97	20.08	20.88	461.45	479.91
ABS 1354 ADD	1	4		0.77	22.26	23.15	567.81	590.52

Core identification Colours :

- ☐ Two cores (ADB) : Red - Blue
- ☐ Three cores (ADC) : Red - Blue - Yellow
- ☐ Four cores (ADD) : Red - Blue - Yellow – Green

Marking : ADA ** FRF++ _____ ADA ** FRF++ _____
 Colour : Black

** = AWG

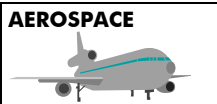
FR = Country of Origin (FR = France)

F = Manufacturer (F= Filotex®)

++ = Year of manufacturing (ie. 03 = 2003)

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Filotex®

ABS 1356 Screened and Jacketed single and multicores UV Laser printable

PRODUCT REFERENCES

ABS 1356 VN+ **

CONSTRUCTION

CORES

- ① 1, 2, 3 or 4
Cores ABS 0949 AD

SCREEN

- ② Nickel-plated copper spiral screen

JACKET

- ③ Polyimide Tape
④ UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

- ❑ Core Colours
- ❑ Jacket Colours and

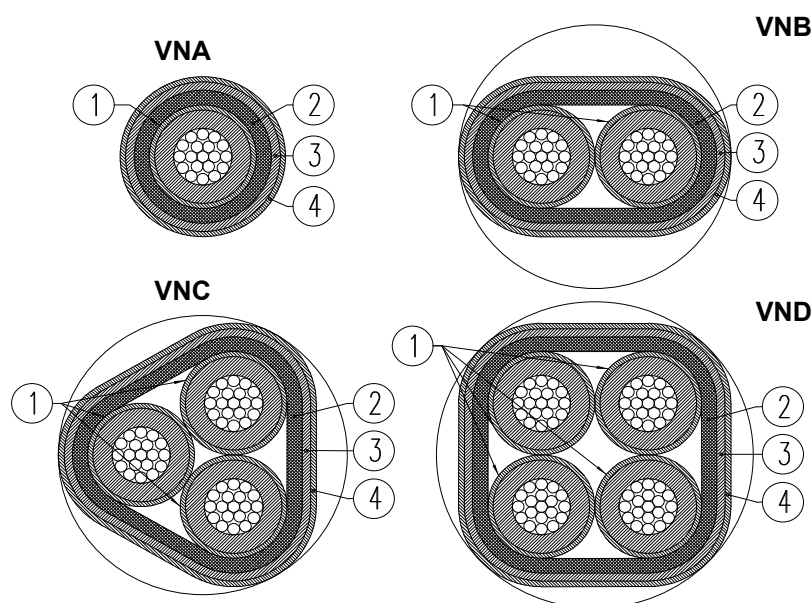
Marking : see next pages on this data sheet

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ ABS 1356
- ❑ AIRBUS ABD0031, issue E specification for 15 and 30 second flame application periods
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
				Colours		Maximum DC Resistance at	Diameter		Weight	
				Cores	Jacket	20°C (68°K) (Ohms/Km)	(mm)		(g/m)	
							Nom.	Max.	Nom.	Max.
ABS 1356 VNA	24	1	0.08	1 Grey	Grey	145	1.38	1.45	4.57	4.80
ABS 1356 VNA	22	1	0.08	1 Grey	Grey	90.2	1.51	1.60	5.58	5.86
ABS 1356 VNA	20	1	0.08	1 Grey	Grey	49.6	1.78	1.87	7.48	7.75
ABS 1356 VNA	18	1	0.08	1 Grey	Grey	33.2	2.03	2.11	9.73	10.40
ABS 1356 VNA	16	1	0.10	1 Grey	Grey	23	2.38	2.48	13.64	14.51
ABS 1356 VNA	14	1	0.10	1 Grey	Grey	15.5	2.68	2.79	17.10	17.96
ABS 1356 VNA	12	1	0.10	1 Grey	Grey	10.9	3.09	3.20	22.56	24.30
ABS 1356 VNA	10	1	0.12	1 Grey	Grey	5.8	3.74	3.89	33.91	36.07
ABS 1356 VNB	24	2	0.08	1 Red 1 Blue	Grey	149.4	2.27	2.40	7.84	8.15
ABS 1356 VNB	22	2	0.08		Grey	92.9	2.53	2.70	9.77	10.16
ABS 1356 VNB	20	2	0.10		Grey	51.1	3.11	3.27	14.31	14.88
ABS 1356 VNB	18	2	0.10		Grey	34.2	3.61	3.75	18.81	20.20
ABS 1356 VNB	16	2	0.12		Grey	23.7	4.27	4.44	26.26	28.10
ABS 1356 VNB	14	2	0.15		Grey	16.0	4.93	5.13	35.5	37.27
ABS 1356 VNB	12	2	0.20		Grey	11.2	5.85	6.09	51.50	55.78
ABS 1356 VNB	10	2	0.20		Grey	6.0	7.07	7.39	73.05	78.19
ABS 1356 VNC	24	3	0.10	1 Red 1 Blue 1 Yellow	Grey	149.4	2.45	2.59	11.14	11.59
ABS 1356 VNC	22	3	0.10		Grey	92.9	2.73	2.91	13.96	14.52
ABS 1356 VNC	20	3	0.12		Grey	51.1	3.35	3.52	20.34	21.15
ABS 1356 VNC	18	3	0.12		Grey	34.2	3.89	4.05	26.89	28.80
ABS 1356 VNC	16	3	0.15		Grey	23.7	4.62	4.80	38.23	40.80
ABS 1356 VNC	14	3	0.15		Grey	16.0	5.26	5.47	48.38	50.80
ABS 1356 VNC	12	3	0.20		Grey	11.2	6.25	6.50	70.04	75.81
ABS 1356 VNC	10	3	0.20		Grey	6.0	7.56	7.90	100.81	107.60
ABS 1356 VND	24	4	0.10	1 Red 1 Blue 1 Yellow 1 Green	Grey	149.4	2.68	2.84	13.74	14.29
ABS 1356 VND	22	4	0.10		Grey	92.9	2.99	3.19	17.37	18.06
ABS 1356 VND	20	4	0.12		Grey	51.1	3.68	3.86	25.38	26.39
ABS 1356 VND	18	4	0.12		Grey	34.2	4.29	4.46	33.83	36.22
ABS 1356 VND	16	4	0.15		Grey	23.7	5.10	5.30	48.14	51.30
ABS 1356 VND	14	4	0.20		Grey	16.0	5.92	6.16	66.67	70.00

Core identification Colours :

- ☐ One core (VNA) : Grey
- ☐ Two cores (VNB) : Red - Blue
- ☐ Three cores (VNC) : Red - Blue - Yellow
- ☐ Four cores (VND) : Red - Blue - Yellow - Green

Marking : ADA ** FRF++ _____ ADA ** FRF++ _____
 Colour : Black

Jacket identification :

Grey
 Marking : XXX ** FRF++
 Colour : Green for AWG 22 – 18 – 14 – 10 and Blue for AWG 24 – 20 – 16 – 12
 XXX : Short designation (VNA, VNB, VNC, VND)
 ** = AWG
 FR = Country of Origin (FR = France)
 F = Manufacturer (F= Filotex®)
 ++ = Year of manufacturing (ie. 02 = 2002)

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BAS 8710

CABLE - AIRFRAME

GENERAL PURPOSE +210 °C

PRODUCT REFERENCES

BAS 8710 AWG **

CONSTRUCTION

CONDUCTOR

- ① Stranded Conductor :
Nickel Plated
High Strength Copper
Alloy (AWG 24) or
Nickel Plated Copper
(AWG 22 to 10).

INSULATION

- ② 2 FEP/POLYIMIDE/FEP
Tapes

COLOURED TOPCOAT

- ③ Mechanical polyimide
coating protection

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -65°C to +210°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

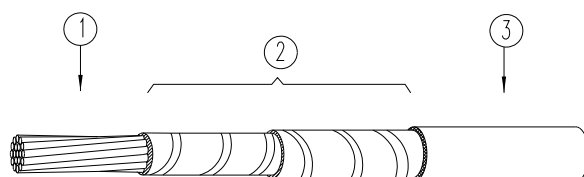
Identification

- Colours : Beige
- Wording: 710-FF-++-**
With : ** = AWG Wire Size
F = Manufacturer (F = Filotex®)
F = Country of Origin (F = France)
++ = Year of Manufacturing (ie. 00 = 2000)

Specifications

- SB/8D/5063-03 Part B1

Filotex® BAS 8710



DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS Filotex® PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(Nbr x mm)	(mm)		(Ohms/Km)	(mm)		(g/m)
			Mini.	Maxi.		Mini.	Maxi.	
BAS 8710 AWG 24	24	19 x 0.120	0.53	0.63	112.6	0.95	1.10	3.00
BAS 8710 AWG 22	22	19 x 0.150	0.68	0.80	60.0	1.07	1.25	4.23
BAS 8710 AWG 20	20	19 x 0.193	0.90	1.02	35.9	1.28	1.47	6.50
BAS 8710 AWG 18	18	19 x 0.250	1.18	1.30	21.2	1.55	1.75	10.40
BAS 8710 AWG 16	16	37 x 0.200	1.32	1.45	17.2	1.68	1.90	12.64
BAS 8710 AWG 14	14	37 x 0.250	1.65	1.80	10.9	2.02	2.25	19.30
BAS 8710 AWG 12	12	37 x 0.315	2.10	2.25	6.73	2.45	2.70	29.80
BAS 8710 AWG 10	10	37 x 0.400	2.69	2.85	4.13	3.20	3.50	49.50

**BAS 8711 / 8712 / 8713****Cable – Airframe****Single and Multi-cores Screened and Sheathed
General Purpose +210 °C****PRODUCT REFERENCES****BAS 8711 AWG ******BAS 8712 AWG ******BAS 8713 AWG ******BAS 8710 AWG ******CONSTRUCTION**CORES (BAS 8710)

SCREEN Nickel Plated
Copper
Spinning

SHEATH

FEP/POLYIMIDE/FEP

Tape(s).

Mechanical polyimide
coating protection for
single core.PTFE Tape(s) for multi-
cores**Applications**

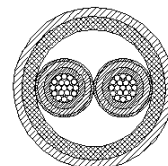
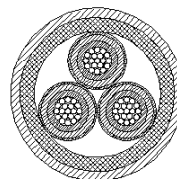
- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -65°C to +210°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Core identification
Colours : Single core: Beige
 Two cores : Black / Red with marking
 Three cores : Black / Red with marking / Green
- Jacket identification colour : White (with marking for single core)
Marking : Wording: 71£-FF-++-**
With : £ = Number of core
 ** = AWG Wire Size
 F = Manufacturer (F = Filotex®)
 F = Country of Origin (F = France)
 ++ = Year of Manufacturing (ie. 03 = 2003)

Specifications : SB/8D/5063-01 Part B**BAS 8711****BAS 8712****BAS 8713**

DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS Filotex [®] PART NUMBER	US AWG	Finished Cable					
		Nbr of cores	Nom. Diameter of shield strands	Maximum DC Resistance at 20°C (68°F)	Diameter (mm)		Maximum Weight
			(mm)	(Ohms/Km)	Min.	Max.	(g/m)
BAS 8711 AWG 24	24	1	0.07	112.6	1.26	1.50	5.70
BAS 8711 AWG 22	22	1	0.07	60.0	1.38	1.62	7.25
BAS 8711 AWG 20	20	1	0.07	35.9	1.58	1.82	10.0
BAS 8711 AWG 18	18	1	0.07	21.2	1.87	2.11	14.6
BAS 8712 AWG 24	24	2	0.10	116.0	2.39	2.79	16.2
BAS 8712 AWG 22	22	2	0.10	61.8	2.63	3.03	21.8
BAS 8712 AWG 20	20	2	0.10	37.0	3.09	3.49	25.2
BAS 8712 AWG 18	18	2	0.12	21.8	3.70	4.10	37.5
BAS 8713 AWG 24	24	3	0.10	116.0	2.55	2.95	21.4
BAS 8713 AWG 22	22	3	0.10	61.8	2.80	3.20	28.2
BAS 8713 AWG 20	20	3	0.10	37.0	3.31	3.71	33.3
BAS 8713 AWG 18	18	3	0.12	21.8	3.95	4.35	52.1



Filotex®

Type ASNE 0261 200°C Operating Temperature Flexible Light Weight Wires Unscreened and Unsheathed Types

PRODUCT REFERENCES

ASNE 0261 CF

ASNE 0264 PF
ASNE 0266 QF
ASNE 0268 RF
ASNE 0270 SJ
ASNE 0272 TK
ASNE 0274 UD

CONSTRUCTION

CONDUCTOR

- ① A Stranded Conductor
Made of Nickel Plated
High Strength Copper
Alloy (AWG 26 & 24) or
Nickel Plated Copper
(AWG 22 to 10).

INSULATION

- ② 2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT

- ③ FEP (Laser Markable
Optional) or PTFE for
cores of Multicores
Cables

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

- ❑ Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Conductor Construction : AECMA EN 2083 Specification
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant.

Identification

- ❑ Colours : White Except AWG 22 Size Which is Light Green.
- ❑ Wording : EN CF @ ** FRF++
With : ** = AWG Wire Size
@ = U letter for UV Laser Markable Wires
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Manufacturing (ie. 06 = 2006)

Specifications

- ❑ AECMA EN 2083 (Conductors)
EN 2266-005 / EN 2266-002 / EN 2084 / EN 3475
- ❑ Airbus ABD 0031, issue E, specification for 15 and 30 seconds flame application periods
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1

ASNE 0261



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Conductor		Finished Wire			
		Stranding (Nbr x mm)	Nom. Dia. (mm)	Maximum DC Resistance at 20°C (68°F)	Diameter (mm)		Maximum Weight
				(Ohms/Km)			(Kg/Km)
ASNE 0261 CF 26 U	26	19 x 0.100	0.49	160	0.75	0.84	2.00
ASNE 0261 CF 24 U	24	19 x 0.120	0.58	114	0.85	0.94	2.65
ASNE 0261 CF 22 U	22	19 x 0.160	0.73	60	0.98	1.09	3.9
ASNE 0261 CF 20 U	20	19 x 0.200	0.97	33.2	1.22	1.34	6.55
ASNE 0261 CF 18 U	18	19 x 0.250	1.22	21.1	1.45	1.59	9.90
ASNE 0261 CF 16 U	16	19 x 0.300	1.46	14.5	1.70	1.84	13.9
ASNE 0261 CF 14 U	14	37 x 0.250	1.71	10.9	1.93	2.1	18.50
ASNE 0261 CF 12 U	12	37 x 0.320	2.19	6.8	2.41	2.6	29.70
ASNE 0261 CF 10 U	10	61 x 0.320	2.81	4.1	3.03	3.25	48.30

This series is also available under the EN 2266-005A part number

ASNE references	EN Specification References	NEXANS Part Numbers
ASNE 0261 CF 10 U	EN2266 005 A 051 P	EN2266 005 A 051 P (CF10U)
ASNE 0261 CF 12 U	EN2266 005 A 030 P	EN2266 005 A 030 P (CF12U)
ASNE 0261 CF 14 U	EN2266 005 A 020 P	EN2266 005 A 020 P (CF14U)
ASNE 0261 CF 16 U	EN2266 005 A 012 P	EN2266 005 A 012 P (CF16U)
ASNE 0261 CF 18 U	EN2266 005 A 010 P	EN2266 005 A 010 P (CF18U)
ASNE 0261 CF 20 U	EN2266 005 A 006 P	EN2266 005 A 006 P (CF20U)
ASNE 0261 CF 22 U	EN2266 005 A 004 P	EN2266 005 A 004 P (CF22U)
ASNE 0261 CF 24 U	EN2266 005 A 002 P	EN2266 005 A 002 P (CF24U)
ASNE 0261 CF 26 U	EN2266 005 A 001 P	EN2266 005 A 001 P (CF26U)



Filotex®

Type ASNE 0264

ASNE 0266

ASNE 0268

200°C Operating Temperature

Flexible Light Weight

Wires Unscreened and Unsheathed Types

PRODUCT REFERENCES

ASNE 0261 CF

ASNE 0264 PF

ASNE 0266 QF

ASNE 0268 RF

ASNE 0270 SJ

ASNE 0272 TK

ASNE 0274 UD

CONSTRUCTION

CORES (ASNE 0261)

CONDUCTOR

A Stranded Conductor
Made of Nickel Plated
High Strength Copper
Alloy (AWG 26 & 24) or
Nickel Plated Copper
(AWG 22 to 10).

INSULATION

2 FEP/POLYIMIDE/FEP
Tapes

COLOURED TOPCOAT

PTFE

NUMBER OF CORES

ASNE 0264 : 2

ASNE 0266 : 3

ASNE 0268 : 4

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C. (Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 2083 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Cores Colours :

1 st	Red
2 nd	Blue
3 rd	Yellow
4 th	Green

- Marking

Colour : White on red and green wires
Dark Green on others.

Wording : EN CF A ** FRF ++

With : ** = AWG Wire Size

FR = Country of Origin (FR = France)

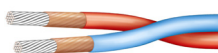
F = Manufacturer (F = Filotex®)

++ = Year of Manufacturing (ie. 06 = 2006)

Specifications

- AECMA EN 2083 (Conductors)
- EN 2266-003 / EN 2266-002
- En 2084 / EN 3475
- Airbus ABD0031, issue E, specification for 15 and 30 seconds flame application periods
- FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- EN 3475-407, Method 1

ASNE 0264



ASNE 0266



ASNE 0268



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Number of Cores	US AWG	Conductor		Finished Cable				
			Stranding	Nomi. Diam.	Maximum DC	Diameter			Maximum Weight
					Resistance at 20°C (68°F)				
					(Ohms/Km)	(mm)			(g/m)
(Nbr x Diam.in mm)	(mm)	Mini	Nom.	Max.					
ASNE 0264 PF 26	2	26	19 x 0.100	0.49	164	1.55	1.60	1.65	3.90
ASNE 0264 PF 24	2	24	19 x 0.120	0.58	117	1.73	1.78	1.83	5.30
ASNE 0264 PF 22	2	22	19 x 0.160	0.73	64	2.02	2.08	2.14	7.80
ASNE 0264 PF 20	2	20	19 x 0.200	0.97	34.9	2.48	2.56	2.64	13.20
ASNE 0264 PF 18	2	18	19 x 0.250	1.22	22.1	2.97	3.06	3.15	19.90
ASNE 0264 PF 16	2	16	19 x 0.300	1.46	15.2	3.43	3.54	3.65	28.10
ASNE 0264 PF 14	2	14	37 x 0.250	1.71	11.2	3.92	4.04	4.16	37.40
ASNE 0264 PF 12	2	12	37 x 0.320	2.19	7	4.85	5.00	5.15	60.20
ASNE 0264 PF 10	2	10	61 x 0.320	2.81	4.2	6.05	6.24	6.43	97.70
ASNE 0266 QF 26	3	26	19 x 0.100	0.49	164	1.67	1.72	1.78	5.90
ASNE 0266 QF 24	3	24	19 x 0.120	0.58	117	1.86	1.92	1.98	8.00
ASNE 0266 QF 22	3	22	19 x 0.160	0.73	64	2.17	2.24	2.31	11.80
ASNE 0266 QF 20	3	20	19 x 0.200	0.97	34.9	2.68	2.76	2.84	19.80
ASNE 0266 QF 18	3	18	19 x 0.250	1.22	22.1	3.20	3.30	3.40	29.90
ASNE 0266 QF 16	3	16	19 x 0.300	1.46	15.2	3.70	3.81	3.93	42.10
ASNE 0266 QF 14	3	14	37 x 0.250	1.71	11.2	4.22	4.35	4.48	56.20
ASNE 0266 QF 12	3	12	37 x 0.320	2.19	7	5.23	5.39	5.55	90.20
ASNE 0266 QF 10	3	10	61 x 0.320	2.81	4.2	6.52	6.72	6.92	146.50
ASNE 0268 RF 26	4	26	19 x 0.100	0.49	164	1.87	1.93	1.99	7.80
ASNE 0268 RF 24	4	24	19 x 0.120	0.58	117	2.08	2.15	2.21	10.60
ASNE 0268 RF 22	4	22	19 x 0.160	0.73	64	2.44	2.51	2.59	15.70
ASNE 0268 RF 20	4	20	19 x 0.200	0.97	34.9	3.00	3.09	3.18	26.40
ASNE 0268 RF 18	4	18	19 x 0.250	1.22	22.1	3.58	3.69	3.80	39.90
ASNE 0268 RF 16	4	16	19 x 0.300	1.46	15.2	4.14	4.27	4.40	56.20
ASNE 0268 RF 14	4	14	37 x 0.250	1.71	11.2	4.73	4.88	5.02	74.90
ASNE 0268 RF 12	4	12	37 x 0.320	2.19	7	5.85	6.04	6.22	120.30
ASNE 0268 RF 10	4	10	61 x 0.320	2.81	4.2	7.31	7.53	7.76	195.30

This series is also available under the EN 2266-005A part number

ASNE references	EN Specification References	NEXANS Part Numbers
ASNE 0264 PF 10	EN 2266 003 B 051 P	EN 2266 003 B 051 P (PF10)
ASNE 0264 PF 12	EN 2266 003 B 030 P	EN 2266 003 B 030 P (PF12)
ASNE 0264 PF 14	EN 2266 003 B 020 P	EN 2266 003 B 020 P (PF14)
ASNE 0264 PF 16	EN 2266 003 B 012 P	EN 2266 003 B 012 P (PF16)
ASNE 0264 PF 18	EN 2266 003 B 010 P	EN 2266 003 B 010 P (PF18)
ASNE 0264 PF 20	EN 2266 003 B 006 P	EN 2266 003 B 006 P (PF20)
ASNE 0264 PF 22	EN 2266 003 B 004 P	EN 2266 003 B 004 P (PF22)
ASNE 0264 PF 24	EN 2266 003 B 002 P	EN 2266 003 B 002 P (PF24)
ASNE 0264 PF 26	EN 2266 003 B 001 P	EN 2266 003 B 001 P (PF26)
ASNE 0266 QF 12	EN 2266 003 C 030 P	EN 2266 003 C 030 P (QF12)
ASNE 0266 QF 14	EN 2266 003 C 020 P	EN 2266 003 C 020 P (QF14)
ASNE 0266 QF 16	EN 2266 003 C 012 P	EN 2266 003 C 012 P (QF16)
ASNE 0266 QF 18	EN 2266 003 C 010 P	EN 2266 003 C 010 P (QF18)
ASNE 0266 QF 20	EN 2266 003 C 006 P	EN 2266 003 C 006 P (QF20)
ASNE 0266 QF 22	EN 2266 003 C 004 P	EN 2266 003 C 004 P (QF22)
ASNE 0266 QF 24	EN 2266 003 C 002 P	EN 2266 003 C 002 P (QF24)
ASNE 0266 QF 26	EN 2266 003 C 001 P	EN 2266 003 C 001 P (QF26)
ASNE 0268 RF 12	EN 2266 003 D 030 P	EN 2266 003 D 030 P (RF12)
ASNE 0268 RF 14	EN 2266 003 D 020 P	EN 2266 003 D 020 P (RF14)
ASNE 0268 RF 16	EN 2266 003 D 012 P	EN 2266 003 D 012 P (RF16)
ASNE 0268 RF 18	EN 2266 003 D 010 P	EN 2266 003 D 010 P (RF18)
ASNE 0268 RF 20	EN 2266 003 D 006 P	EN 2266 003 D 006 P (RF20)
ASNE 0268 RF 22	EN 2266 003 D 004 P	EN 2266 003 D 004 P (RF22)
ASNE 0268 RF 24	EN 2266 003 D 002 P	EN 2266 003 D 002 P (RF24)
ASNE 0268 RF 26	EN 2266 003 D 001 P	EN 2266 003 D 001 P (RF26)



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Filotex®

Type ASNE 0270 ASNE 0272 ASNE 0274 200°C Operating Temperature Flexible Light Weight Cables Screened and Sheathed Types

PRODUCT REFERENCES

ASNE 0261 CF
ASNE 0264 PF
ASNE 0266 QF
ASNE 0268 RF

ASNE 0270 SJ
ASNE 0272 TK
ASNE 0274 UD
EN2713-007D

CONSTRUCTION

① CORES (ASNE 0261)

② SCREEN

Nickel Plated Copper
Spinning

③ SHEATH

2 FEP/POLYIMIDE/FEP Tapes

④ COLOURED TOPCOAT

FEP (Laser Markable)

NUMBER OF CORES

ASNE 0270 : 1
ASNE 0272 : 2
ASNE 0274 : 3
EN 2713-007D : 4

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 2083 Specification
- Dimensions and weights : See tables on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Cores Colours : See Tables on this Data Sheet
- Sheaths Colours : See Tables on this Data Sheet
- Marking:
Colour: White on Red and Dark Green wires
Wording : *On Sheaths*

\$\$ ** £ FR F ++

With : \$\$ = ASNE Type (SJ, TK, UD or VL)
** = AWG Wire Size
£ = Topcoat code (U, C or None)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Manufacturing (ie. 07 = 2007)

Specifications

- AECMA EN 2083 (Conductors)
- EN 2266-003 / EN 2713-002 / EN 2713-007 / EN 2235 / EN 3475
- Airbus ABD0031, issue E, specification for 15 and 30 seconds flame application periods
- FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- EN 3475-407, Method 1

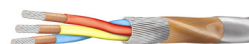
ASNE 0270



ASNE 0272



ASNE 0274



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Nbr of Cores	US AWG	Finished Cable						
			Colours		Maximum DC Resistance at 20°C (68°F) (Ohms/km)	Diameter (mm)			Maximum Weight (Kg/Km)
			Cores	Sheath		Mini.	Nom.	Max.	
ASNE 0270 SJ 26 U	1	26	White	White	160	1.13	1.22	1.25	4.30
ASNE 0270 SJ 24 U	1	24		Light Blue	114	1.22	1.31	1.35	5.30
ASNE 0270 SJ 22 U	1	22	Light Green	White	60	1.36	1.46	1.52	6.90
ASNE 0270 SJ 20 U	1	20	White	Light Blue	33.2	1.63	1.70	1.80	10.20
ASNE 0270 SJ 18 U	1	18		White	21.1	1.88	1.94	2.05	14.10
ASNE 0270 SJ 16 U	1	16		Light Blue	14.5	2.16	2.22	2.35	19.70
ASNE 0270 SJ 14 U	1	14		White	10.9	2.35	2.47	2.55	24.80
ASNE 0272 TK 26 U	2	26	1 Red 1 Light Blue	White	164	1.88	2.02	2.10	7.60
ASNE 0272 TK 24 U	2	24		Light Blue	117	2.08	2.20	2.30	9.60
ASNE 0272 TK 22 U	2	22		White	64.0	2.38	2.50	2.60	12.70
ASNE 0272 TK 20 U	2	20		Light Blue	34.9	2.90	3.02	3.15	19.90
ASNE 0272 TK 18 U	2	18		White	22.1	3.40	3.50	3.70	27.80
ASNE 0272 TK 16 U	2	16		Light Blue	15.2	3.90	4.02	4.20	38.50
ASNE 0272 TK 14 U	2	14		White	11.2	4.35	4.52	4.75	50.00
ASNE 0272 TK 12 U	2	12		White	7	5.25	5.52	5.65	75.00
ASNE 0274 UD 26 U	3	26	1 Red 1 Light Blue 1 Yellow	White	164	2.02	2.14	2.25	10.50
ASNE 0274 UD 24 U	3	24		Light Blue	117	2.25	2.33	2.50	14.00
ASNE 0274 UD 22 U	3	22		White	64.00	2.55	2.65	2.85	18.70
ASNE 0274 UD 20 U	3	20		Light Blue	34.9	3.10	3.21	3.45	29.20
ASNE 0274 UD 18 U	3	18		White	22.7	3.60	3.73	4.00	40.90
ASNE 0274 UD 16 U	3	16		Light Blue	15.2	4.15	4.28	4.55	55.60
ASNE 0274 UD 14 U	3	14		White	11.2	4.88	4.88	5.05	72.60

U = UV Laser Markable

This series is also available under the EN 2266-005A part number

ASNE references	EN Specification References	NEXANS Part Numbers
ASNE 0270 SJ 10 U	EN 2713 007 A 051 F	EN 2713 007 A 051 F (SJ10U)
ASNE 0270 SJ 12 U	EN 2713 007 A 030 F	EN 2713 007 A 030 F (SJ12U)
ASNE 0270 SJ 14 U	EN 2713 007 A 020 F	EN 2713 007 A 020 F (SJ14U)
ASNE 0270 SJ 16 U	EN 2713 007 A 012 F	EN 2713 007 A 012 F (SJ16U)
ASNE 0270 SJ 18 U	EN 2713 007 A 010 F	EN 2713 007 A 010 F (SJ18U)
ASNE 0270 SJ 20 U	EN 2713 007 A 006 F	EN 2713 007 A 006 F (SJ20U)
ASNE 0270 SJ 22 U	EN 2713 007 A 004 F	EN 2713 007 A 004 F (SJ22U)
ASNE 0270 SJ 24 U	EN 2713 007 A 002 F	EN 2713 007 A 002 F (SJ24U)
ASNE 0270 SJ 26 U	EN 2713 007 A 001 F	EN 2713 007 A 001 F (SJ26U)
ASNE 0272 TK 14 U	EN 2713 007 B 020 F	EN 2713 007 B 020 F (TK14U)
ASNE 0272 TK 16 U	EN 2713 007 B 012 F	EN 2713 007 B 012 F (TK16U)
ASNE 0272 TK 18 U	EN 2713 007 B 010 F	EN 2713 007 B 010 F (TK18U)
ASNE 0272 TK 20 U	EN 2713 007 B 006 F	EN 2713 007 B 006 F (TK20U)
ASNE 0272 TK 22 U	EN 2713 007 B 004 F	EN 2713 007 B 004 F (TK22 U)
ASNE 0272 TK 24 U	EN 2713 007 B 002 F	EN 2713 007 B 002 F (TK24U)
ASNE 0272 TK 26 U	EN 2713 007 B 001 F	EN 2713 007 B 001 F (TK26U)
ASNE 0274 UD 14 U	EN 2713 007 C 020 F	EN 2713 007 C 020 F (UD14U)
ASNE 0274 UD 16 U	EN 2713 007 C 012 F	EN 2713 007 C 012 F (UD16U)
ASNE 0274 UD 18 U	EN 2713 007 C 010 F	EN 2713 007 C 010 F (UD18U)
ASNE 0274 UD 20 U	EN 2713 007 C 006 F	EN 2713 007 C 006 F (UD20U)
ASNE 0274 UD 22 U	EN 2713 007 C 004 F	EN 2713 007 C 004 F (UD22U)
ASNE 0274 UD 24 U	EN 2713 007 C 002 F	EN 2713 007 C 002 F (UD24U)
ASNE 0274 UD 26 U	EN 2713 007 C 001 F	EN 2713 007 C 001 F (UD26U)
No ASNE ref	EN 2713 007 D 020 F	EN 2713 007 D 020 F (VL14U)
	EN 2713 007 D 012 F	EN 2713 007 D 012 F (VL16U)
	EN 2713 007 D 010 F	EN 2713 007 D 010 F (VL18U)
	EN 2713 007 D 006 F	EN 2713 007 D 006 F (VL20U)
	EN 2713 007 D 004 F	EN 2713 007 D 004 F (VL22U)
	EN 2713 007 D 002 F	EN 2713 007 D 002 F (VL24U)
	EN 2713 007 D 001 F	EN 2713 007 D 001 F (VL26U)



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Filotex®

PFG QFG RFG 200°C Operating Temperature Flexible Light Weight Cables

PRODUCT REFERENCES

CFA

CF-U

PFG QFG RFG

SJB TKB UDB VLB

CONSTRUCTION

CORES

- ① 2, 3 or 4 CFA elements

SHEATH

- ② Polyimide tape F2 Type
K ≥ 20 %
- ③ UV Laser Markable
FEP Top coat

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Colours (cores and jackets): See table on this data sheet
- Wording: On cores: ■ CF ** A FR F ++*

On Sheaths: ■ PFG ** FR F ++ (Green)

With : ** = AWG Wire Size

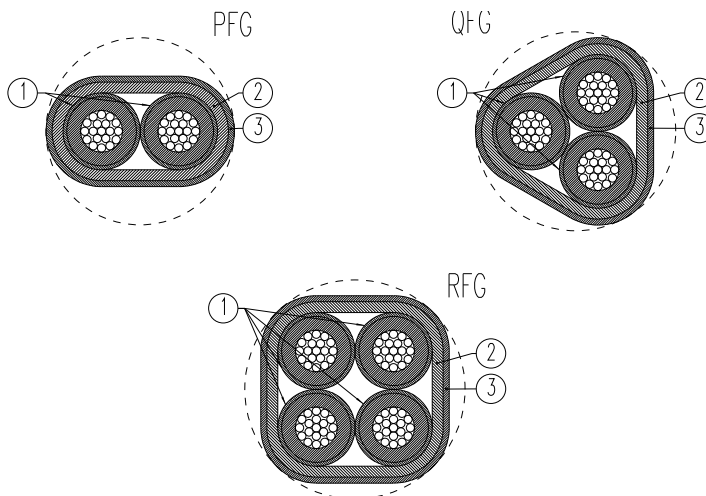
FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
EN2266 - 003 (Cores)
EN2266 - 007 (Cable)
NSA 935000
SDF/B67-04/A/108/1128
EN 3475 - 705 - 706



DIMENSIONS AND WEIGHTS

Filotex® Part number	Nbr of cores	US AWG	Finished cable					
			Colours		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Maximum Weight (g/m)
			Cores	Sheaths		Nom.	Max.	
PFG26	2	26	1 Red 1 Blue	White	164.8	1.77	1.87	4.85
PFG24	2	24		Light Blue	117.5	1.97	2.07	6.40
PFG22	2	22		White	61.8	2.27	2.39	9.10
PFG20	2	20		Light Blue	34.2	2.77	2.91	14.90
PFG18	2	18		White	21.8	3.25	3.44	21.80
PFG16	2	16		Light Blue	15	3.75	3.96	30.30
PFG14	2	14		White	11.2	4.23	4.49	40.00
PFG12	2	12		White	6.90	5.19	5.34	62.90
QFG26	3	26	1 Red 1 Blue 1 Yellow	White	164.8	1.89	1.99	7.10
QFG24	3	24		Light Blue	117.5	2.11	2.21	9.30
QFG22	3	22		White	61.8	2.43	2.55	13.35
QFG20	3	20		Light Blue	34.2	2.97	3.12	21.90
QFG18	3	18		White	21.8	3.49	3.68	32.20
QFG16	3	16		Light Blue	15	4.02	4.24	44.90
QFG14	3	14		White	11.2	4.54	4.80	59.40
QFG12	3	12		White	6.90	5.58	5.74	93.60
RFG26	4	26	1 Red 1 Blue 1 Yellow 1 Green	White	164.8	2.10	2.22	9.20
RFG24	4	24		Light Blue	117.5	2.34	2.47	12.15
RFG22	4	22		White	61.8	2.70	2.87	17.55
RFG20	4	20		Light Blue	34.8	3.30	3.50	28.90
RFG18	4	18		White	21.8	3.88	4.15	42.60
RFG16	4	16		Light Blue	15	4.49	4.75	59.50
RFG14	4	14		White	11.2	5.07	5.40	78.80



Filotex®

SJB TKB UDB VLB 200°C Operating Temperature Flexible Light Weight Cables

PRODUCT REFERENCES

CFA
CF-U
PFG QFG RFG
SJB TKB UDB VLB

CONSTRUCTION

CORES

- ① 1, 2, 3 or 4 CFA elements
PTFE Topcoat

SCREEN

- ② Silver plated copper helicoidal screen

SHEATH

- ③ Polyimide tape F1 Type
④ UV Laser Markable
FEP Top coat

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

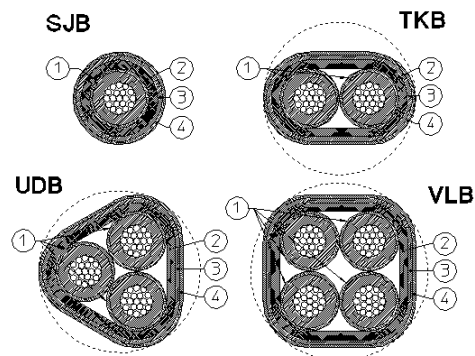
- ❑ Operating temperature : -55°C to +200°C. (Ambiant + Rise)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant

Identification

- ❑ Colours (cores and jackets): See table on this data sheet
- ❑ Wording: On cores: ■ CF ** A FR F ++*
On Sheaths: ■ SJB ** FR F ++ (Green)
With : ** = AWG Wire Size
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Production (ie. 00 = 2000)

Specifications

- ❑ AECMA EN 2083 (Conductors)
EN2266 - 003 (Cores)
NSA 935000
EN 2713 - 011
SDF/B67-04/A/108/1128



DIMENSIONS AND WEIGHTS

Filotex® Part number	Nbr of cores	US AWG	Diameter Spinning (mm)	Finished cable					
				Colours		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Maximum weight (g/m)
				Cores	Sheaths		Nom.	Max.	
SJB26	1	26		White	White	160	1.16	1.22	4.15
SJB24	1	24		White	Light blue	114	1.26	1.32	5.15
SJB22	1	22	0.08	Vert Pâle	White	60	1.41	1.48	6.70
SJB20	1	20		White	Light blue	33.2	1.66	1.74	10.00
SJB18	1	18		White	White	21.1	1.90	1.98	13.85
SJB16	1	16		White	Light blue	14.5	2.19	2.28	19.45
SJB14	1	14	0.10	White	White	10.9	2.43	2.53	24.70
SJB12	1	12		White	White	6.8	2.91	3.00	36.80
SJB10	1	10		White	White	4.1	3.53	3.64	57.00
TKB26	2	26			White	164.8	1.95	2.05	7.40
TKB24	2	24	0.08		Light blue	117.5	2.15	2.26	9.20
TKB22	2	22		1 Red	White	61.8	2.45	2.57	12.35
TKB20	2	20	0.10	1 Blue	Light blue	34.2	2.99	3.14	19.80
TKB18	2	18			White	21.8	3.47	3.63	27.60
TKB16	2	16	0.12		Light blue	15	4.01	4.17	38.30
TKB14	2	14			White	11.2	4.49	4.67	49.80
UDB26	3	26			White	164.8	2.07	2.18	10.20
UDB24	3	24	0.08		Light blue	117.5	2.29	2.40	12.60
UDB22	3	22		1 Red	White	61.8	2.61	2.74	17.20
UDB20	3	20	0.10	1 Blue	Light blue	34.2	3.19	3.35	27.70
UDB18	3	18		1 Yellow	White	21.8	3.71	3.87	39.00
UDB16	3	16	0.12		Light blue	15	4.29	4.46	54.70
UDB14	3	14	0.15		White	11.2	4.86	5.06	72.70
UDB12	3	12			White	6.98	5.98	6.16	110.82
VLB26	4	26	0.08		White	164.8	2.28	2.39	13.10
VLB24	4	24		1 Red	Light blue	117.5	2.52	2.64	16.50
VLB22	4	22	0.10	1 Blue	White	61.8	2.92	3.07	23.70
VLB20	4	20		1 Yellow	Light blue	34.2	3.52	3.70	36.40
VLB18	4	18	0.12	1 Green	White	21.8	4.14	4.31	52.90
VLB16	4	16			Light blue	15	4.75	4.94	71.4



Filotex®

EN 2267-008A

Single UV Laser printable 260°C Operating Temperature Medium Weight Arc Tracking Resistant Cables

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

PRODUCT REFERENCES

EN 2267-007A

EN 2267-008A +++

CONSTRUCTION

CONDUCTOR

- ① Stranded Conductor : Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 6).

INSULATION

- ② FEP/POLYIMIDE/FEP Tape
- ③ UV PTFE Tape(s)

Main data

- ❑ Operating temperature : -55°C to +260°C.(Ambiant + Rise)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

- ❑ Wire Standard

Colour : White Except AWG 26 Which is Light Yellow and AWG 22 Which is Light Green.

- ❑ Marking :

Colour : Green (Single core)

White on red and dark green wires (Multicore)

Wording : EN DM ** FRF++

With : ** = AWG Wire Size

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

++ = Year of Manufacturing (ie. 01 = 2001)

Specifications

- ❑ prEN2267-008 for Wires
- ❑ prEN4434 for Conductors
- ❑ prEN3475 for Tests & Performances
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal Section	Colour Code	US AWG	Conductor			Finished Wire				
				Stranding (Nbr x Dia. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
					Mini. (mm)	Max. (mm)		Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
EN 2267-008A	001	S	26	19 x 0.100	0.45	0.49	160.0	0.85	0.97	2.35	2.45
EN 2267-008A	002	P	24	19 x 0.120	0.55	0.60	114.0	0.90	1.04	2.93	3.10
EN 2267-008A	004	P	22	19 x 0.150	0.70	0.75	60.0	1.05	1.19	4.20	4.43
EN 2267-008A	006	P	20	19 x 0.200	0.94	1.00	33.2	1.38	1.53	7.33	7.73
EN 2267-008A	010	P	18	19 x 0.250	1.18	1.25	21.1	1.65	1.82	11.06	11.74
EN 2267-008A	012	P	16	19 x 0.300	1.39	1.50	14.5	2.02	2.22	16.19	16.95
EN 2267-008A	020	P	14	37 x 0.250	1.68	1.75	10.9	2.29	2.49	21.01	22.65
EN 2267-008A	030	P	12	37 x 0.320	2.12	2.20	6.8	2.73	2.97	32.72	33.70
EN 2267-008A	051	P	10	61 x 0.320	2.72	2.83	4.1	3.33	3.61	51.54	53.10
EN 2267-008A	090	P	8	127 x 0.300	-	4.20	2.3	4.47	4.77	92.29	95.60
EN 2267-008A	140	P	6	27 x 7 x 0.300	-	5.40	1.58	5.70	6.30	138.10	141.40



Filotex®

EN 2267-007 Unscreened and Unjacketed multicores 260°C Operating Temperature

PRODUCT REFERENCES

EN 2267-007A

EN 2267-007* +++P

CONSTRUCTION

CONDUCTOR

- ① Stranded Conductor Made up of Nickel Coated High Strength Copper Alloy for AWG 26 and 24.

Stranded Conductor Made up of Nickel Coated Copper for all others AWG

INSULATION

- ② FEP / POLYIMIDE / FEP Tape
③ PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient. + Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

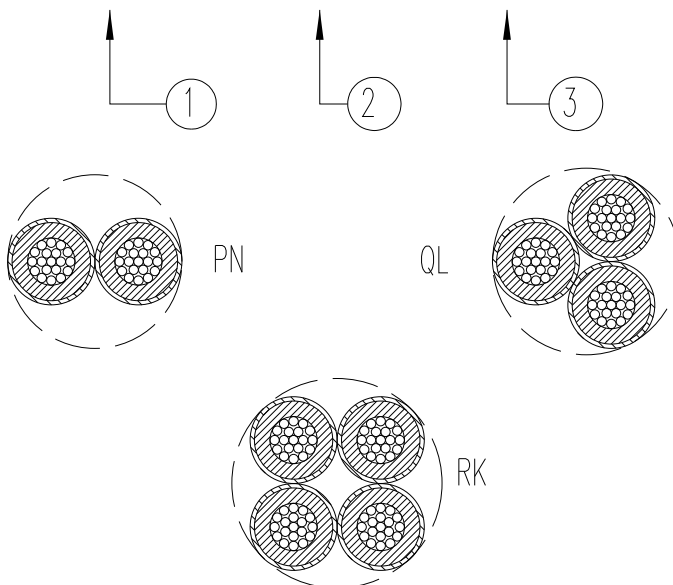
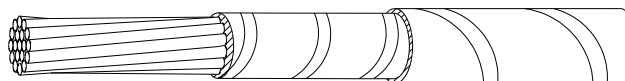
- ❑ Core Colours
- ❑ Marking : see next pages on this data sheet

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ prEN 4434 for conductors
- ❑ prEN 2267-007 for cables
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Finished Cable					
					Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
							Min.	Max.	Nom.	Max.
EN 2267-007B	001	P	26	2	1 Red 1 Blue	165	1.73	1.93	4.79	5.03
EN 2267-007B	002	P	24	2		117	1.84	2.06	5.98	6.31
EN 2267-007B	004	P	22	2		61.7	2.13	2.37	8.57	9.03
EN 2267-007B	006	P	20	2		34.1	2.77	3.07	14.95	15.75
EN 2267-007B	010	P	18	2		21.7	3.36	3.64	22.56	23.93
EN 2267-007B	012	P	16	2		14.9	4.09	4.44	33.03	34.55
EN 2267-007B	020	P	14	2		11.2	4.57	4.97	42.86	46.16
EN 2267-007B	030	P	12	2		6.99	5.55	5.92	66.34	68.62
EN 2267-007B	051	P	10	2		4.22	6.62	7.12	104.65	108.10
EN 2267-007B	090	P	8	2		2.37	8.90	9.46	188.27	193.92
EN 2267-007B	140	P	6	2		1.63	11.35	12.05	281.72	290.18
EN 2267-007C	001	P	26	3	1 Red 1 Blue 1 Yellow	165	1.86	2.08	7.19	7.55
EN 2267-007C	002	P	24	3		117	1.99	2.22	8.97	9.50
EN 2267-007C	004	P	22	3		61.7	2.29	2.55	12.85	13.60
EN 2267-007C	006	P	20	3		34.1	2.99	3.30	22.43	23.70
EN 2267-007C	010	P	18	3		21.7	3.62	3.92	33.84	35.99
EN 2267-007C	012	P	16	3		14.9	4.41	4.78	49.54	51.96
EN 2267-007C	020	P	14	3		11.2	4.92	5.35	64.29	68.43
EN 2267-007C	030	P	12	3		6.99	5.98	6.37	99.51	103.21
EN 2267-007C	051	P	10	3		4.22	7.13	7.67	156.98	162.65
EN 2267-007C	090	P	8	3		2.37	9.59	10.19	282.41	290.88
EN 2267-007C	140	P	6	3		1.63	12.23	12.98	422.59	435.26
EN 2267-007D	001	P	26	4	1 Red 1 Blue 1 Yellow 1 Green	165	2.09	2.33	9.59	10.07
EN 2267-007D	002	P	24	4		117	2.22	2.49	11.95	12.72
EN 2267-007D	004	P	22	4		61.7	2.57	2.86	17.14	18.18
EN 2267-007D	006	P	20	4		34.1	3.35	3.70	29.91	31.70
EN 2267-007D	010	P	18	4		21.7	4.06	4.39	45.12	48.18
EN 2267-007D	012	P	16	4		14.9	4.94	5.36	66.06	69.56
EN 2267-007D	020	P	14	4		11.2	5.52	6.00	85.72	92.96
EN 2267-007D	030	P	12	4		6.99	6.70	7.14	132.68	138.18
EN 2267-007D	051	P	10	4		4.22	7.98	8.60	208.69	217.77
EN 2267-007D	090	P	8	4		2.37	10.75	11.41	376.54	387.84
EN 2267-007D	140	P	6	4		1.63	13.70	14.55	563.45	580.35

Core identification Colours :

- Two cores (PN) : Red - Blue
- Three cores (QL) : Red - Blue - Yellow
- Four cores (RK) : Red - Blue - Yellow - Green

Marking : EN DM A ++ FRF**

++ = AGW

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of manufacturing (i.e. 99=1999)

Cable identification :

- Two cores : EN 2267-007B (Short designation PN)
- Three cores : EN 2267-007C (Short designation QL)
- Four cores : EN 2267-007D (Short designation RK)

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 **nexans**



Filotex®

EN 2714-011

Screened and Jacketed single and multicores UV Laser printable 260°C Operating Temperature

PRODUCT REFERENCES

EN 2267-007A

EN 2267-008A

EN 2714-011*++F

CONSTRUCTION

CORES

- ① 1, 2, 3 or 4
Cores EN 2267-007A

SCREEN

- ② Nickel-plated copper spiral screen

JACKET

- ③ Polyimide Tape
④ UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

- ❑ Core Colours
- ❑ Jacket Colours and
- ❑ Marking : see next pages on this data sheet

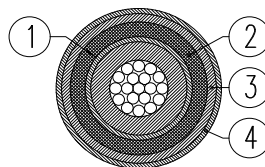
Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

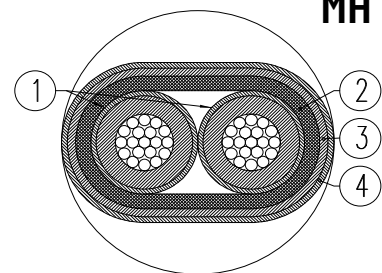
Specifications

- ❑ prEN 4434 for conductors
- ❑ prEN 2267-007A for cores
- ❑ prEN 2714-011 for Screened and Jacketed single and multicores
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1

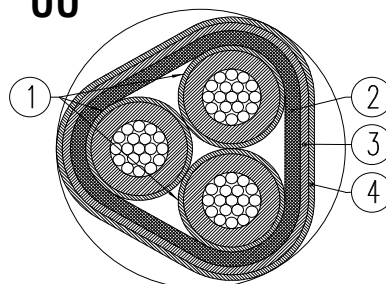
GJ



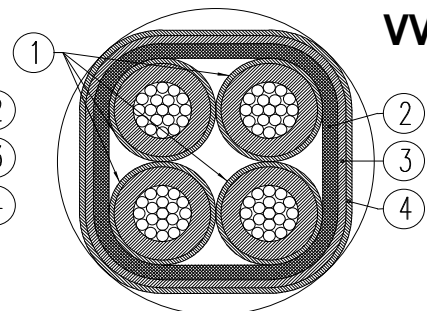
MH



UU



VV



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nom. Section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Max. DC Resistance at	Diameter		Weight	
						Cores	Jacket	20°C (68°K) (Ohms/	(mm)		(g/m)	
									Nom.	Max.	Nom.	Max.
EN 2714-011A	001	F	26	1	0.08	Light yellow	White	160	1.40	1.47	5.27	5.63
EN 2714-011A	002	F	24	1	0.08	White	Light blue	114	1.46	1.53	6.01	6.44
EN 2714-011A	004	F	22	1	0.08	Light green	White	60	1.61	1.69	7.68	8.19
EN 2714-011A	006	F	20	1	0.08	White	Light blue	33.2	1.95	2.05	11.71	12.42
EN 2714-011A	010	F	18	1	0.08	White	White	21.1	2.24	2.33	16.21	17.28
EN 2714-011A	012	F	16	1	0.10	White	Light blue	14.5	2.66	2.77	23.32	24.57
EN 2714-011A	020	F	14	1	0.10	White	White	10.9	2.91	3.03	28.90	31.16
EN 2714-011A	030	F	12	1	0.10	White	White	6.8	3.41	3.49	42.14	43.63
EN 2714-011A	051	F	10	1	0.12	White	White	4.1	4.07	4.13	64.40	66.65
EN 2714-011B	001	F	26	2	0.08	1 Red 1 Blue	White	165	2.31	2.43	9.25	9.78
EN 2714-011B	002	F	24	2	0.08		Light blue	117	2.43	2.55	10.69	11.35
EN 2714-011B	004	F	22	2	0.08		White	61.7	2.73	2.87	13.93	14.75
EN 2714-011B	006	F	20	2	0.10		Light blue	34.1	3.45	3.62	22.87	24.10
EN 2714-011B	010	F	18	2	0.10		White	21.7	4.03	4.19	31.93	33.67
EN 2714-011B	012	F	16	2	0.12		Light blue	14.9	4.83	5.02	45.84	47.76
EN 2714-011B	020	F	14	2	0.15		White	11.2	5.39	5.61	59.67	63.64
EN 2714-011B	030	F	12	2	0.20		White	6.99	6.49	6.65	92.10	94.47
EN 2714-011B	051	F	10	2	0.20		White	4.22	7.73	7.87	135.04	139.07
EN 2714-011C	001	F	26	3	0.08	1 Red 1 Blue 1 Yellow	White	165	2.45	2.57	12.41	13.07
EN 2714-011C	002	F	24	3	0.10		Light blue	117	2.62	2.75	15.38	16.36
EN 2714-011C	004	F	22	3	0.10		White	61.7	2.94	3.09	20.16	21.33
EN 2714-011C	006	F	20	3	0.12		Light blue	34.1	3.72	3.90	33.05	34.73
EN 2714-011C	010	F	18	3	0.12		White	21.7	4.34	4.51	46.43	49.00
EN 2714-011C	012	F	16	3	0.15		Light blue	14.9	5.22	5.43	67.44	70.38
EN 2714-011C	020	F	14	3	0.15		White	11.2	5.76	5.99	84.18	89.85
EN 2714-011C	030	F	12	3	0.20		White	6.99	6.89	7.10	129.32	133.30
EN 2714-011C	051	F	10	3	0.20		White	4.22	8.23	8.40	192.93	198.55
EN 2714-011D	001	F	26	4	0.10	1 Red 1 Blue 1 Yellow 1 Green	White	165	2.73	2.86	16.53	17.45
EN 2714-011D	002	F	24	4	0.10		Light blue	117	2.87	3.02	19.31	20.46
EN 2714-011D	004	F	22	4	0.10		White	61.7	3.23	3.39	25.53	26.98
EN 2714-011D	006	F	20	4	0.12		Light blue	34.1	4.09	4.30	42.14	44.37
EN 2714-011D	010	F	18	4	0.12		White	21.7	4.79	4.99	59.63	62.90
EN 2714-011D	012	F	16	4	0.15		Light blue	14.9	5.77	6.00	86.71	90.48
EN 2714-011D	020	F	14	4	0.20		White	11.2	6.47	6.73	114.61	122.32

Core identification Colours :

- One core (GJ) : White except code 001 : Light Yellow and code 004 : Light Green
- Two cores (MH) : Red - Blue
- Three cores (UU) : Red - Blue - Yellow
- Four cores (VV) : Red - Blue - Yellow - Green

Marking : EN DMA ++ FRF**

Jacket identification :

White except code 002/006/012 : Light Blue Marking : EN xx ++ FRF**

xx = Short designation (GJ, MH, UU, VV) F = Manufacturer (F = Filotex®)

++ = Awg

** = Year of manufacturing (ie. 99=1999)

FR = Country of Origin (FR = France)

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Fax : + 33 1 69 42 05 70

 **nexans**



Filotex®

EN2714-012 MJ 260 °C, Screened (Braided) and Jacketed multicores UV Laser Printable

LINE OF PRODUCTS

EN 2267-007A

EN 2267-008A

EN 2714-012E +++£

CONSTRUCTION

CORES

- ① Cores EN 2267-007A
- ② Polyimide Tape

SCREEN

- ③ Nickel plated copper braid

JACKET

- ④ Polyimide Tape
UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Arc Tracking Resistant

Identification

- ❑ Core Colours
- ❑ Jacket Colours and

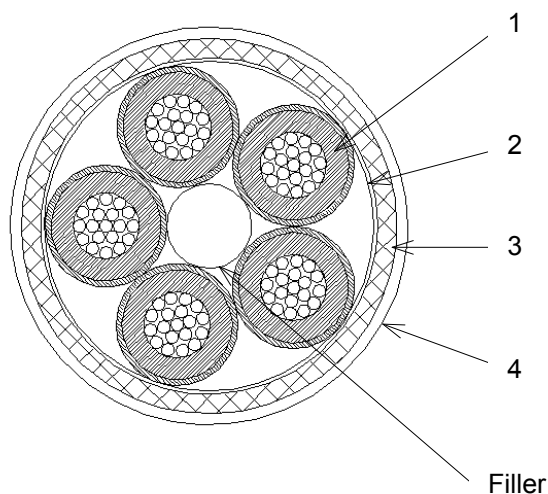
Marking : see next pages on this data sheet

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ prEN 4434 for conductors
- ❑ prEN 2267-007 for cores
- ❑ prEN 2714-012 for Screened and Jacketed multicores



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nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Max. DC Resistance at	Diameter		Weight	
						Cores	Jacket	20°C (68°K) (Ohms/Km)	(mm)		(g/m)	
									Nom.	Max.	Nom.	Max.
EN 2714-012E	010	J	18	5	0.12	White	White	21.7	5.60	5.90	83.26	87.7
EN 2714-012E	012	J	16	5	0.12	Light Blue	Light blue	14.9	6.62	7.10	114.25	119.7
EN 2714-012E	020	J	14	5	0.12	Yellow						
						Red	White	11.2	7.29	7.70	142.17	149.4
						Green						
EN 2714-012E	030	H	12	5	0.15	Black, Light Blue, Yellow, Red Green	Light blue	6.99	8.71	9.20	212.89	227.8

Core Colours :

□ 5 cores (MJ) : (Code H) Black – Light Blue – Yellow - Red – Green

(Code J) White – Light Blue – Yellow - Red – Green

Marking : EN DM A ++ FRF**

Colour : White for Black / Red and Green core.

Green for Light Blue / Yellow / White core.

Jacket Colours :

Marking :

See table.

EN xx ++ FRF** Colour : Green

xx = Short designation (MJ)

++ = Awg

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of manufacturing (ie. 05 = 2005)



Filotex®

EN 2267-010A
UV Laser printable Wire
260°C Operating Temperature
Light Weight
Arc Tracking Resistant

PRODUCT REFERENCES

EN 2267-009A

EN 2267-010A ++ +

CONSTRUCTION

CONDUCTOR

- ① Stranded Conductor :
 Nickel Plated High
 Strength Copper Alloy
 (AWG 26 & 24) or
 Nickel Plated Copper
 (AWG 22 to 2).

INSULATION

- ② Special Polyimide Tape
 ③ Special UV PTFE Tape(s)

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

- ❑ Operating temperature : -55°C to +260°C. (Ambiant + Rise)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Identification

- ❑ Standard colour Code :
 White Except AWG 26 Which is Light Yellow
 and AWG 22 Which is Light Green.
 Awg 24 is available in light blue colour (EN2267-010A 02B)

- ❑ Marking : EN DR ** FRF++
 With : ** = AWG Wire Size
 DR = Short designation
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ++ = Year of Manufacturing (ie. 05 = 2005)
 Colour : Green

Specifications

- ❑ prEN2267-010 product standard
- ❑ prEN4434 for Conductors AWG 26 to 6
- ❑ prEN2083 for Conductors AWG 4 to 2
- ❑ prEN3475 for Tests & Performances
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal Section	Colour Code	US AWG	Conductor			Finished Wire				
				Stranding (Nbr x Dia. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
					Mini. (mm)	Max. (mm)		Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
EN 2267-010A	001	S	26	19 x 0.100	0.47	0.49	160.0	0.75	0.84	1.95	2.08
EN 2267-010A	002	S	24	19 x 0.120	0.555	0.585	114.0	0.85	0.96	2.64	2.72
EN 2267-010A	004	S	22	19 x 0.150	0.71	0.73	60.0	1.00	1.10	3.89	4.14
EN 2267-010A	006	S	20	19 x 0.200	0.94	0.97	33.2	1.22	1.34	6.57	6.85
EN 2267-010A	010	S	18	19 x 0.250	1.19	1.22	21.1	1.46	1.61	10.15	10.43
EN 2267-010A	012	S	16	19 x 0.300	1.41	1.45	14.5	1.76	1.92	14.05	14.61
EN 2267-010A	020	S	14	37 x 0.250	1.69	1.73	10.9	2.04	2.24	19.31	19.78
EN 2267-010A	030	S	12	37 x 0.320	2.13	2.18	6.8	2.50	2.70	29.25	31.33
EN 2267-010A	051	S	10	61 x 0.320	2.73	2.77	4.1	3.13	3.33	47.37	49.85
EN 2267-010A	090	S	8	127 x 0.300	3.55	3.85	2.3	4.10	4.40	87.81	90.00
EN 2267-010A	140	S	6	27 x 7 x 0.300	4.80	5.20	1.58	5.30	5.70	132.41	135.00
EN 2267-010A	220	S	4	37 x 12 x 0.250	-	6.80	0.97	6.71	7.41	215.15	222.00
EN 2267-010A	340	S	2	37 x 19 x 0.250	-	8.60	0.61	8.28	9.16	336.10	347.00



EN 2267-009 Multicores DRA

Filotex®

PRODUCT REFERENCES

EN 2267-009* +++P

CONSTRUCTION

CORES

2, 3 or 4 Cores
EN 2267-009A

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Arc Tracking Resistant

Applications

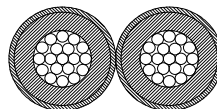
- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

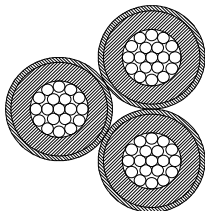
- ❑ prEN2267-009 Product Standard
- ❑ prEN2267-002 General Specification

- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1

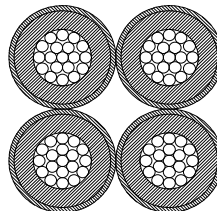
DRB



DRC



DRD



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Finished Wire					
					Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
							Nom.	Max.	Nom.	Max.
EN 2267-009B	001	P	26	2	1 Red 1 Blue	165	1.56	1.68	3.98	4.28
EN 2267-009B	002	P	24	2		117	1.82	1.92	5.39	5.60
EN 2267-009B	004	P	22	2		61.7	2.10	2.20	7.94	8.53
EN 2267-009B	006	P	20	2		34.1	2.60	2.68	13.40	14.11
EN 2267-009B	010	P	18	2		21.7	3.08	3.22	20.71	21.49
EN 2267-009B	012	P	16	2		14.9	3.66	3.84	28.66	30.10
EN 2267-009B	020	P	14	2		11.2	4.32	4.48	39.39	40.75
EN 2267-009B	030	P	12	2		6.99	5.14	5.40	59.67	64.54
EN 2267-009B	051	P	10	2		4.22	6.42	6.66	96.63	102.69
EN 2267-009B	090	P	8	2		2.37	8.60	8.80	179.13	185.40
EN 2267-009B	140	P	6	2		1.63	11.10	11.40	270.12	278.10
EN 2267-009B	220	P	4	2		1	14.12	14.82	438.91	457.32
EN 2267-009C	001	P	26	3	1 Red 1 Blue 1 Yellow	165	1.68	1.81	5.97	6.43
EN 2267-009C	002	P	24	3		117	1.96	2.06	8.08	8.40
EN 2267-009C	004	P	22	3		61.7	2.26	2.37	11.90	12.79
EN 2267-009C	006	P	20	3		34.1	2.80	2.88	20.10	21.17
EN 2267-009C	010	P	18	3		21.7	3.32	3.46	31.06	32.23
EN 2267-009C	012	P	16	3		14.9	3.94	4.13	42.99	45.14
EN 2267-009C	020	P	14	3		11.2	4.65	4.82	59.09	61.12
EN 2267-009C	030	P	12	3		6.99	5.54	5.81	89.50	96.81
EN 2267-009C	051	P	10	3		4.22	6.92	7.16	144.95	154.04
EN 2267-009C	090	P	8	3		2.37	9.27	9.46	268.7	278.10
EN 2267-009C	140	P	6	3		1.63	11.96	12.26	405.17	417.15
EN 2267-009C	220	P	4	3		1	15.21	15.93	658.36	685.98
EN 2267-009D	001	P	26	4	1 Red 1 Blue 1 Yellow 1 Green	165	1.88	2.02	7.96	8.57
EN 2267-009D	002	P	24	4		117	2.20	2.30	10.77	11.21
EN 2267-009D	004	P	22	4		61.7	2.53	2.64	15.87	17.06
EN 2267-009D	006	P	20	4		34.1	3.14	3.22	26.81	28.22
EN 2267-009D	010	P	18	4		21.7	3.72	3.86	41.41	42.97
EN 2267-009D	012	P	16	4		14.9	4.42	4.61	57.32	60.19
EN 2267-009D	020	P	14	4		11.2	5.21	5.38	78.78	81.49
EN 2267-009D	030	P	12	4		6.99	6.20	6.48	119.34	129.08
EN 2267-009D	051	P	10	4		4.22	7.75	7.99	193.27	205.38
EN 2267-009D	090	P	8	4		2.37	10.38	10.56	358.26	370.80
EN 2267-009D	140	P	6	4		1.63	13.40	13.68	540.23	556.20
EN 2267-009D	220	P	4	4		1	17.04	17.78	877.81	914.64

Core identification Colours :

- Two cores (DRB) : Red - Blue
- Three cores (DRC) : Red - Blue - Yellow
- Four cores (DRD) : Red - Blue - Yellow - Green

Marking : EN DRA ** FRF++

Colour : White for Red and Green core.

Green for Blue and Yellow core.

With : ** = AWG Wire Size

FR = Country of Origin (FR = France)

++ = Year of Manufacturing (ie. 03 = 2003)

DRA = Short designation

F = Manufacturer (F = Filotex®)

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EN 2714-013

260 °C, S/J, Light Weight , UV Arc Tracking Resistant

Filotex®

PRODUCT REFERENCES

EN 2267-009A

EN 2267-010A

EN 2714-013* ++ +F

CONSTRUCTION

CORES

① 1, 2, 3 or 4

Cores EN 2267-009A

SCREEN

② Nickel-plated copper spiral screen

JACKET

③ Polyimide Tape

④ UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Arc Tracking Resistant

Identification

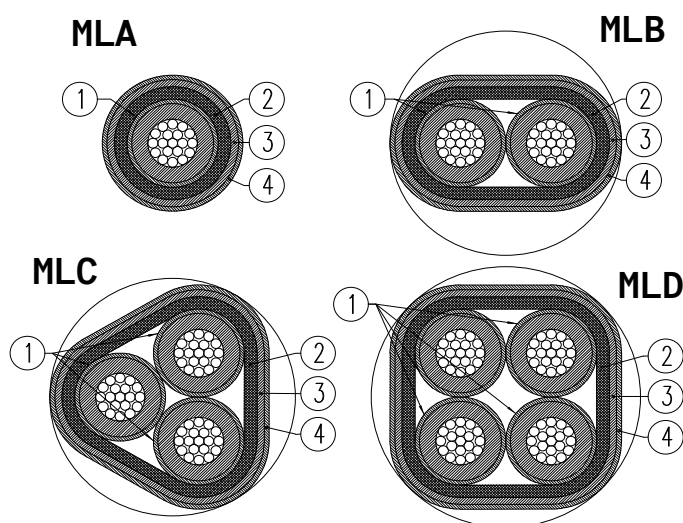
- ❑ Core Colours
- ❑ Jacket Colours and
- ❑ Marking : see next pages on this data sheet

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ prEN 4434 for conductors
- ❑ prEN 2267-009 for cores
- ❑ prEN 2714-013 for Screened and Jacketed single and multicores
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC Resis- tance at 20°C (68°K) (Ohms/K m)	Diameter		Weight	
						Cores	Jacket		(mm) Nom. Max.	(g/m) Nom. Max.		
EN 2714-013A	001	F	26	1	0.08	Light yellow	White	160	1.23 1.31	4.35	4.68	
EN 2714-013A	002	F	24	1	0.08	White	Light blue	114	1.36 1.45	5.37	5.76	
EN 2714-013A	004	F	22	1	0.08	Light green	White	60	1.50 1.60	6.97	7.51	
EN 2714-013A	006	F	20	1	0.08	White	Light blue	33.2	1.75 1.84	10.28	10.77	
EN 2714-013A	010	F	18	1	0.08	White	White	21.1	1.99 2.08	14.47	14.97	
EN 2714-013A	012	F	16	1	0.10	White	Light blue	14.5	2.32 2.43	19.95	20.97	
EN 2714-013A	020	F	14	1	0.10	White	White	10.9	2.65 2.74	26.17	27.03	
EN 2714-013A	030	F	12	1	0.10	White	White	6.8	3.06 3.20	37.31	39.70	
EN 2714-013A	051	F	10	1	0.12	White	White	4.1	3.74 3.89	58.72	61.94	
EN 2714-013B	001	F	26	2	0.08	1 Red 1 Blue	White	165	2.01 2.13	7.63	8.17	
EN 2714-013B	002	F	24	2	0.08		Light blue	117	2.27 2.40	9.58	10.23	
EN 2714-013B	004	F	22	2	0.08		White	61.7	2.55 2.70	12.70	13.64	
EN 2714-013B	006	F	20	2	0.10		Light blue	34.1	3.09 3.22	20.17	21.05	
EN 2714-013B	010	F	18	2	0.10		White	21.7	3.57 3.71	28.62	29.52	
EN 2714-013B	012	F	16	2	0.12		Light blue	14.9	4.19 4.38	39.30	41.20	
EN 2714-013B	020	F	14	2	0.15		White	11.2	4.91 5.04	54.19	55.83	
EN 2714-013B	030	F	12	2	0.20		White	6.99	5.83 6.09	81.80	86.79	
EN 2714-013B	051	F	10	2	0.20		White	4.22	7.11 7.39	123.94	130.51	
EN 2714-013C	001	F	26	3	0.08	1 Red 1 Blue 1 Yellow	White	165	2.13 2.26	10.25	10.94	
EN 2714-013C	002	F	24	3	0.10		Light blue	117	2.45 2.59	13.83	14.72	
EN 2714-013C	004	F	22	3	0.10		White	61.7	2.75 2.91	18.45	19.76	
EN 2714-013C	006	F	20	3	0.12		Light blue	34.1	3.33 3.48	29.23	30.44	
EN 2714-013C	010	F	18	3	0.12		White	21.7	3.85 4.00	41.75	42.96	
EN 2714-013C	012	F	16	3	0.15		Light blue	14.9	4.53 4.73	57.96	60.67	
EN 2714-013C	020	F	14	3	0.15		White	11.2	5.25 5.39	76.59	78.83	
EN 2714-013C	030	F	12	3	0.20		White	6.99	6.23 6.50	115.68	122.72	
EN 2714-013C	051	F	10	3	0.20		White	4.22	7.61 7.90	177.31	186.69	
EN 2714-013D	001	F	26	4	0.10	1 Red 1 Blue 1 Yellow 1 Green	White	165	2.37 2.51	13.69	14.57	
EN 2714-013D	002	F	24	4	0.10		Light blue	117	2.69 2.84	17.37	18.47	
EN 2714-013D	004	F	22	4	0.10		White	61.7	3.03 3.19	23.4	25.04	
EN 2714-013D	006	F	20	4	0.12		Light blue	34.1	3.67 3.82	37.31	38.81	
EN 2714-013D	010	F	18	4	0.12		White	21.7	4.25 4.41	53.73	55.22	
EN 2714-013D	012	F	16	4	0.15		Light blue	14.9	5.01 5.23	74.58	78.02	
EN 2714-013D	020	F	14	4	0.20		White	11.2	5.91 6.06	104.39	107.36	

Core identification Colours :

- One core (MLA) : White except code 001 : Light Yellow code 004 : Light Green
- Two cores (MLB) : Red - Blue
- Three cores (MLC) : Red - Blue - Yellow
- Four cores (MLD) : Red - Blue - Yellow - Green

Marking : EN DRA ++ FRF** Colour : White for Red and Green core. Green for Blue and Yellow core.

Jacket identification :

White except code 002/006/012 : Light Blue

Marking : EN xxx ++ FRF** Colour : Green

xxx = Short designation (MLA, MLB, MLC, MLD) ++ = Awg FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®) ** = Year of manufacturing (ie. 02 = 2002)

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EN 2714-014 260 °C, S/J, Light Weight , UV Arc Tracking Resistant

Filotex®

PRODUCT REFERENCES

EN 2267-009A

EN 2267-010A

EN 2714-014* ++ +£

CONSTRUCTION

CORES

- ① Cores EN 2267-009A
- ② Polyimide Tape

SCREEN

- ③ Nickel plated copper braid

JACKET

- ④ Polyimide Tape
UV PTFE Tape

Characteristics

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- ❑ Operating frequency : up to 2000 Hz
- ❑ Dimensions and weights : see table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Arc Tracking Resistant

Identification

- ❑ Core Colours
- ❑ Jacket Colours and

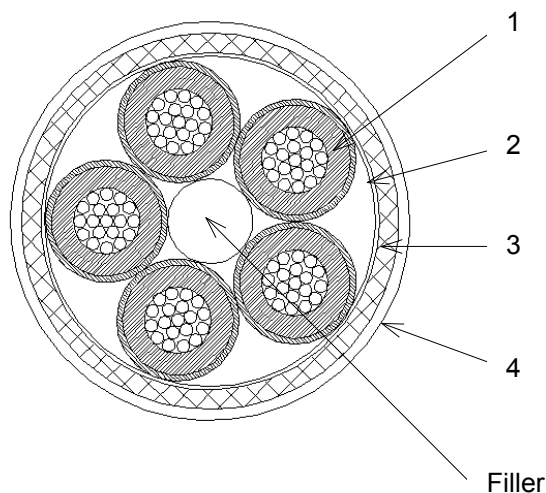
Marking : see next pages on this data sheet

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications

Specifications

- ❑ prEN 4434 for conductors
- ❑ prEN 2267-009 for cores
- ❑ prEN 2714-014 for Screened and Jacketed multicores
- ❑ EN 3475 -601 -602
- ❑ FAR/JAR-25, §25.869 (a)(4) and appendix F, Part 1, Change 15
- ❑ EN 3475-407, Method 1



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 **nexans**

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC Resistance at	Diameter		Weight	
						Cores	Jacket	20°C (68°K) (Ohms/Km)	(mm) Nom. Max.		(g/m) Nom. Max.	
EN 2714-014E	010	J	18	5	0.12	White Blue Yellow Red Green	White	21.7	5.03	5.26	73.22	76.0
EN 2714-014E	012	J	16	5	0.12		Light blue	14.9	5.82	6.10	97.31	102.2
EN 2714-014E	020	J	14	5	0.12		White	11.2	6.71	7.05	128.62	135.0
EN 2714-014E	030	H	12	5	0.15	Black, Blue, Yellow, Red Green	Light blue	6.99	7.94	8.41	191.30	205.6
EN 2714-014E	002	F	24	5	0.10	Red, Blue, Yellow, Green, White,	Light blue	117	3.21	3.29	24.79	26.2
EN 2714-014F	002	F	24	6	0.12	Red, Blue, Yellow, Green, White, Black,	Light blue	117	3.61	3.79	31.9	33.46
EN 2714-014G	002	G	24	7	0.12	Red, Blue, Yellow, Green, White, Black, Brown,	White	117	3.61	3.80	32.96	34.60
EN 2714-014H	002	F	24	8	0.12	Red, Blue, Yellow, Green, White, Black, Brown, Orange,	Light blue	117	4.16	4.37	42.25	44.34
EN 2714-014K	002	F	24	10	0.12	Red, Blue, Yellow, Green, White, Black, Brown, Orange, Violet, Grey	Light blue	117	4.51	4.74	46.43	48.75

Core Colours :

- 5 cores (MME) : (Code H) Black – Blue – Yellow - Red – Green
(Code J) White – Blue – Yellow - Red – Green
(Code F) Red - Blue – Yellow – Green – White
- 6 cores (MMF) : (Code F) Red - Blue – Yellow – Green – White – Black
- 7 cores (MMG) : (Code G) Red - Blue – Yellow – Green – White – Black – Brown
- 8 cores (MMH) : (Code F) Red - Blue – Yellow – Green – White – Black – Brown - Orange
- 10 cores (MMK) : (Code F) Red - Blue – Yellow – Green – White – Black – Brown – Orange – Violet - Grey

Marking : EN DRA ++ FRF**

Colour : White for Black / Red / Brown / Green and violet core.
Green for Blue / Yellow / White / Orange and grey core.

Jacket Colours :

See table.

Marking : EN xxx ++ FRF** Colour : Green

xxx = Short designation (MME, MMG)

++ = Awg

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of manufacturing (ie. 06 = 2006)

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 **nexans**

Part 2

Cables for power transmission

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AEROSPACE**Filotex®**

Type ASNE 0438 YV
180°C Operating Temperature
(up to 200°C Peak)
Flexible Nickel Plated Aluminium
Light Weight Wires
Single Core Large Sizes

PRODUCT REFERENCES**ASNE0438 YV****CONSTRUCTION**CONDUCTOR

A Stranded Conductor
Made of Nickel Plated
Aluminium

INSULATION

3 POLYIMIDE Tapes

EXTERNAL PROTECTION

An Aromatic Polyamide
Braid Impregnated with
a Non Flammable Varnish

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

- ❑ Operating temperature : -55°C to +180°C.(Ambiant + Rise)
(up to + 200°C Peak)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Conductor Construction : AECMA EN 3719 Specification
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant

Identification

- ❑ By Colored Threads Between Polyimide Tapes and External Braid
1, 2 or 3 Threads for Manufacturer : i.e. Black + Grey = Filotex®
2 Treads for Year of Manufacturing : i.e. Blue + Orange = 2000
- ❑ Wires Size AWG 06, 03, 01, 00 and 0000 are identified with 1 black
carrier in the external Aromatic Polyamide braid

Specifications

- ❑ AECMA EN 3719 (Conductors)
- ❑ ASNE 0438
- ❑ NSA 935000
- ❑ NSA 307110
- ❑ AS N°462396/85
- ❑ FAR 25-869

Filotex® ASNE 0438

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DIMENSIONS AND WEIGHTS (Inch, pound)

FILOTEX PART NUMBER	US AWG	Conductor				Finished Wire or Cable		
		Stranding	Diam.	Nbr of Strands Missing Allowed	Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(m x n x Diam. in inch)	(inch)		(Ohms/1000 ft)	(inch)		(lb/1000 ft)
						Mini.	Max.	
YV 06	6	7 x 10 x 0.020	0.197 ± 0.010	0	0.671	0.228	0.252	36.9
YV 04	4	7 x 15 x 0.020	0.240 ± 0.012	0	0.457	0.272	0.295	51.7
YV 03	3	7 x 19 x 0.020	0.268 ± 0.012	0	0.360	0.315	0.331	64.5
YV 02	2	7 x 24 x 0.020	0.303 ± 0.012	2	0.287	0.339	0.362	79.9
YV 01	1	7 x 30 x 0.020	0.339 ± 0.012	2	0.229	0.374	0.398	100.0
YV 0A	0	19 x 14 x 0.020	0.394 ± 0.012	3	0.183	0.425	0.457	124.9
YV 00	00	19 x 18 x 0.020	0.449 ± 0.012	3	0.131	0.480	0.520	161.1
YV 000 ^①	000	19 x 22 x 0.020	0.500 ± 0.012	4	0.110	0.524	0.571	194.7
YV 0000 ^①	0000	37 x 15 x 0.020	0.569 ± 0.014	5	0.088	0.594	0.642	248.4

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor				Finished Wire or Cable		
		Stranding	Diam.	Nbr of Strands Missing Allowed	Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(m x n x Diam. in mm)	(mm)		(Ohms/Km)	(mm)		(g/m)
						Mini.	Max.	
YV 06	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20	5.8	6.4	55
YV 04	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50	6.9	7.5	77
YV 03	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18	8.0	8.4	96
YV 02	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94	8.6	9.2	119
YV 01	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75	9.5	10.1	149
YV 0A	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.60	10.8	11.6	186
YV 00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43	12.2	13.2	240
YV 000 ^①	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36	13.3	14.5	290
YV 0000 ^①	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29	15.1	16.3	370

① = AWG not defined in ASN Specification, values obtained by extension with defined construction



Filotex®

NSA 935 308 YU

150°C Operating Temperature

Flexible Aluminium Alloy conductor

Single Core Large Sizes

PRODUCT REFERENCES

NSA935308 YU

CONSTRUCTION

CONDUCTOR

A Stranded Conductor
Made of Aluminium alloy

INSULATION

3 POLYIMIDE Tapes

EXTERNAL PROTECTION

An Aromatic Polyamide
Braid Impregnated with
a Non Flammable Varnish

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

- ❑ Operating temperature : -55°C to +150°C.(Ambiant + Rise))
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Conductor Construction : AECMA EN 3719 Specification
- ❑ Dimensions and weights : See table on this data sheet
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant

Identification

- ❑ By Colored Threads Between Polyimide Tapes and External Braid
- Manufacturer colour: Black + Grey = Filotex®
- Manufacturing year : Blue + Brown = 2003

Specifications

- ❑ AECMA EN 3719 (Conductors)
- ❑ NSA935308
- ❑ NSA 935000
- ❑ NSA 307110
- ❑ FAR 25-1359

Filotex® NSA 935308



DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor				Finished Wire or Cable		
		Stranding	Diam.	Nbr of Strands Missing Allowed	Max. DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
						(m x n x Diam. in mm)	(mm)	(Ohms/Km)
						Mini.	Max.	
YU 12 ^①	12	45 x 0.30	2.4 ±0.20	0	10	3.2	3.45	16.5
YU 10 ^①	10	27 x 0.51	2.9 ± 0.20	0	5.8	3.6	4.0	26
YU 8 ^①	8	41 x 0.51	3.7 ± 0.20	0	3.8	4.4	4.8	35
YU 6 ^①	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20	5.7	6.3	55
YU 4	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50	6.8	7.4	84
YU 3 ^①	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18	7.7	8.1	96
YU 2 ^①	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94	8.4	9.0	120
YU 1 ^①	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75	9.3	9.9	149
YU 0	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.66	10.7	11.5	199
YU 00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43	12.1	13.1	256
YU 000	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36	13.3	14.5	309
YU 000	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29	15.1	16.3	390

① = AWG not designed in NSA Specification, values obtained by extension with defined construction

Part 3

Nacelles and engines: High temperature, fire resistant/proof cables

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Filotex®

FX 5400 VG 95218-20 type J Single wire

PRODUCT REFERENCES

FX 5400

FX 5301
FX 5303
FX 5401
FX 5403

CONSTRUCTION

CONDUCTOR :

- ① Stranded conductor
Made of Nickel Plated
Copper.

INSULATION :

- ② Polyimide tape
- ③ PTFE tape
- ④ Glass fiber tape
- ⑤ PTFE tape

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

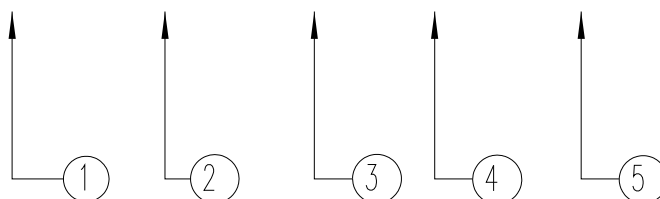
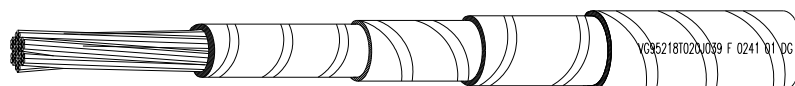
- ❑ Temperature rating : -55°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Very good resistance to Aircraft Fluids.
- ❑ Arc Tracking Resistant

Identification

- ❑ Colour : White
- ❑ Marking : VG95218T020J**£ F 0241 ++ DG
 ** = Dash N°
 £ = Colour (9 = White)
 ++ = Year of production (ie. : 00 = 2000)
 DG = Cable code according to TR 6058
 F 0241 = Manufacturer's Cage code

Specifications

- ❑ VG 95218-2 (May 1998)
- ❑ VG 95218-20 (Feb 2000)



DIMENSIONS AND WEIGHTS (METRIC UNITS)

TYPE J : Single core nickel plated copper.

VG Reference	NEXANS Part Number	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Conductor	
					Stranding	Diameter
					Nbr x Diam of strands (mm)	Max. (mm)
VG 95218T020J019	FX 5400-050	01	050	10	73 x 0.30	3.3
VG 95218T020J029	FX 5400-090	02	090	8	127 x 0.30	4.5
VG 95218T020J039	FX 5400-140	03	140	6	27 x 7 x 0.30	5.6
VG 95218T020J049	FX 5400-220	04	220	4	37 x 12 x 0.25	7.3
VG 95218T020J059	FX 5400-340	05	340	2	37 x 19 x 0.25	8.8
VG 95218T020J069	FX 5400-420	06	420	1	37 x 23 x 0.25	10.0
VG 95218T020J079	FX 5400-530	07	530	0	37 x 29 x 0.25	11.3
VG 95218T020J089	FX 5400-680	08	680	00	37 x 37 x 0.25	12.5
VG 95218T020J099	FX 5400-850	09	850	000	48 x 36 x 0.25	14.4
VG 95218T020J109	FX 5400-107	10	107	0000	61 x 36 x 0.25	15.9

(1) = For Information only.

Finished Wire			
Diameter		Weight	Maximum DC Resistance at 20°C (68°F) (Ohms/Km)
Min. (mm)	Max. (mm)	Max. (g/m)	
4.1	4.5	64.5	3.9
5.2	5.6	108	2.3
6.3	7.3	160	1.6
8.1	9.3	245	0.97
9.7	10.9	396	0.61
10.6	12.1	470	0.50
11.8	13.4	600	0.40
13.6	14.5	750	0.31
15.6	16.8	950	0.25
17.0	18.4	1200	0.20



PRODUCT REFERENCES

NSA 935 131 DG ++

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor
Nickel Plated Copper.

INSULATION

- ② Polyimide tape
③ PTFE tape(s)
④ Glass fiber tape
⑤ PTFE tape(s)

Applications

- ❑ Designed for general Purpose Aircraft Wiring Applications.

Main data

- ❑ Temperature rating : -55°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating frequency : up to 2000 Hz.
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Very good resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant
- ❑ Non flammable

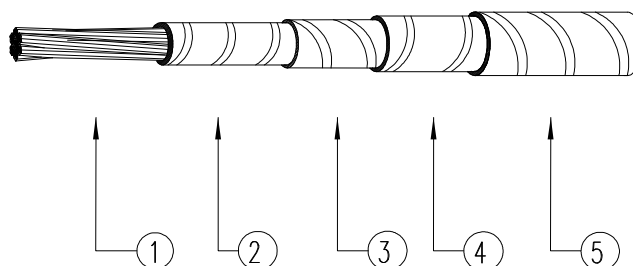
Identification

- ❑ Colour: White

Specifications

- ❑ NSA935131
- ❑ EN 2854-003

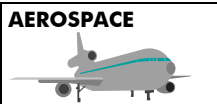
NSA 935 131 DG



DIMENSIONS AND WEIGHTS (METRIC UNITS)

NEXANS Part Number	Nominal section (mm ²)	AWG	Conductor	
			Stranding Nbr x Dia. of strands (mm)	Diameter Max. (mm)
NSA 935 131 DG 10	5.15	10	73 x 0.30	3.3
NSA 935 131 DG 8	8.98	8	127 x 0.30	4.5
NSA 935 131 DG 6	13.4	6	27 x 7 x 0.30	5.6
NSA 935 131 DG 4	21.8	4	37 x 12 x 0.25	7.3
NSA 935 131 DG 2	34.5	2	37 x 19 x 0.25	8.8
NSA 935 131 DG 1	41.8	1	37 x 23 x 0.25	10.0
NSA 935 131 DG 0	52.7	0	37 x 29 x 0.25	11.3
NSA 935 131 DG 00	67.2	00	37 x 37 x 0.25	12.5
NSA 935 131 DG 000	84.8	000	48 x 36 x 0.25	14.4
NSA 935 131 DG 0000	107.8	0000	61 x 36 x 0.25	15.9

NEXANS Part Number	Finished Wire			
	Diameter		Weight Max. (g/m)	Maximum DC Resistance at 20°C (68°F) (Ohms/Km)
	Min. (mm)	Max. (mm)		
NSA 935 131 DG 10	4.1	4.5	64.5	3.9
NSA 935 131 DG 8	5.2	5.6	108	2.3
NSA 935 131 DG 6	6.3	7.3	160	1.6
NSA 935 131 DG 4	8.1	9.3	245	0.97
NSA 935 131 DG 2	9.7	10.9	396	0.61
NSA 935 131 DG 1	10.6	12.1	470	0.50
NSA 935 131 DG 0	11.8	13.4	600	0.40
NSA 935 131 DG 00	13.6	14.5	750	0.31
NSA 935 131 DG 000	15.6	16.8	950	0.25
NSA 935 131 DG 0000	17.0	18.4	1200	0.20



BMS 13-58 High Temperature Aircraft Wire

Filotex®

Applications

- ❑ Designed for general purpose aircraft wiring where exposure to thermal changes and corrosive fluids is normal.

Main data

- ❑ Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- ❑ Operating Temperature : -65°C (-85°F) to +260°C (+500°F)
- ❑ Dimensions and weights : See Tables on This Data Sheet.
- ❑ Abrasion resistant
- ❑ Resistant to aircraft fluids
- ❑ Good mechanical and electrical performances

PRODUCT REFERENCES

BMS 13-58 T1
BMS 13-58 T5

BMS 13-58 T2 to T9

CONSTRUCTION

CONDUCTOR

- ① -Nickel coated Copper Conductor (Type 1)
- Nickel coated copper alloy (Type 5)

INSULATION

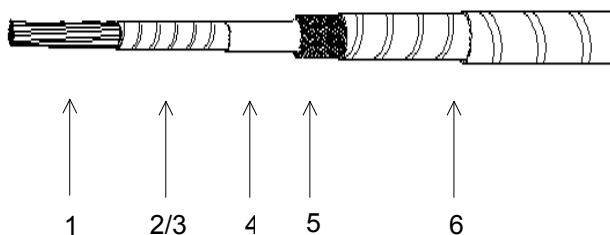
- ② PTFE tape
- ③ Polyimide tape
- ④ PTFE coated glass tape (AWG 8 to 0000 only)
- ⑤ PTFE coated glass braid
- ⑥ PTFE tapes Jacket

Specification

- ❑ BMS 13-58 QPL

Product range

- ❑ Shielded and jacketed T3, T7, T9 cables are available upon request
- ❑ Shielded T2, T6 cables are available upon request
- ❑ Jacketed T4, T8 cables are available upon request



DIMENSIONS AND WEIGHTS (METRIC UNITS)

TYPE 1

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Nbr of Strands x Dia.of Strands in mm)	Diameter		Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
			(mm)			(mm)		(Kg/Km)	
			Nom.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T1	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.4	7.23
BMS 13-58 T1	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS 13-58 T1	22	19 x 0.20	0.94	1.04	32.1	2.03	2.18	9.73	11.55
BMS 13-58 T1	18	19 x 0.25	1.17	1.30	22	2.31	2.46	13.91	16.07
BMS 13-58 T1	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05
BMS 13-58 T1	14	19 x 0.36	1.65	1.85	9.84	2.77	2.97	24.10	26.93
BMS 13-58 T1	12	37 x 0.32	2.13	2.29	6.5	3.25	3.45	34.60	38.69
BMS 13-58 T1	10	37 x 0.40	2.69	2.90	4.07	3.71	4.01	51.48	57.88
BMS 13-58 T1	8	19 x 7 x 0.287	4.01	4.39	2.28	5.46	5.77	94.04	106.84
BMS 13-58 T1	6	19 x 7 x 0.360	5.03	5.51	1.43	6.38	7.14	138.23	161.75
BMS 13-58 T1	4	19 x 7 x 0.455	6.35	6.96	0.902	7.77	8.64	217.54	254.15
BMS 13-58 T1	2	19 x 35 x 0.254	8.13	8.64	0.581	9.83	10.49	348.04	401.46
BMS 13-58 T1	0	19 x 55 x 0.254	10.03	10.8	0.371	11.79	12.6	510.23	610.53
BMS 13-58 T1	00	19 x 70 x 0.254	11.18	12.07	0.292	12.88	14.15	566.18	765.58
BMS 13-58 T1	000	37 x 45 x 0.254	12.7	13.72	0.233	14.17	15.44	793.10	941.9
BMS 13-58 T1	0000	37 x 57 x 0.254	14.35	15.37	0.184	15.95	17.25	1031.63	1125

DIMENSIONS AND WEIGHTS (INCH, POUND)

TYPE 1

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Nbr of Strands x. Dia.of Strands in inch)	Diameter		Resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter		Weight	
			(inch)			(inch)		(Pound/1000 ft)	
			Min.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T1	24	19 x 0.050	0.023	0.026	26.20	0.069	0.075	4.30	4.86
BMS 13-58 T1	22	19 x 0.0063	0.029	0.033	16.00	0.073	0.079	5.30	5.86
BMS 13-58 T1	22	19 x 0.0080	0.037	0.041	9.77	0.080	0.086	6.54	7.76
BMS 13-58 T1	18	19 x 0.010	0.046	0.051	6.70	0.091	0.097	9.35	10.80
BMS 13-58 T1	16	19 x 0.0113	0.052	0.058	4.76	0.095	0.103	11.60	12.80
BMS 13-58 T1	14	19 x 0.0142	0.065	0.073	3.00	0.109	0.117	16.20	18.10
BMS 13-58 T1	12	37 x 0.0126	0.084	0.090	1.98	0.128	0.136	23.25	26.00
BMS 13-58 T1	10	37 x 0.0159	0.106	0.114	1.24	0.146	0.158	34.50	38.90
BMS 13-58 T1	8	19 x 7 x 0.0113	0.158	0.173	0.694	0.215	0.227	63.20	71.80
BMS 13-58 T1	6	19 x 7 x 0.0142	0.198	0.217	0.436	0.251	0.281	92.90	108.70
BMS 13-58 T1	4	19 x 7 x 0.0179	0.250	0.274	0.275	0.306	0.340	146.20	170.80
BMS 13-58 T1	2	19 x 35 x 0.0100	0.320	0.340	0.177	0.387	0.413	233.90	269.80
BMS 13-58 T1	0	19 x 55 x 0.0100	0.395	0.425	0.113	0.464	0.496	342.90	410.30
BMS 13-58 T1	00	19 x 70 x 0.0100	0.440	0.475	0.089	0.507	0.557	380.50	514.50
BMS 13-58 T1	000	37 x 45 x 0.0100	0.500	0.540	0.071	0.558	0.608	533.00	633.00
BMS 13-58 T1	0000	37 x 57 x 0.0100	0.565	0.605	0.056	0.628	0.679	693.30	756.20

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DIMENSIONS AND WEIGHTS (METRIC UNITS)

TYPE 5

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding	Diameter		Resistance at 20°C (68°F)	Diameter		Weight	
		(Nbr of Strands x Dia. of Strands in mm)	(mm)		(Ohms/Km)	(mm)		(Kg/Km)	
			Min.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T5	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.4	7.23
BMS 13-58 T5	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS 13-58 T5	22	19 x 0.20	0.94	1.04	32.1	2.03	2.18	10.42	11.55
BMS 13-58 T5	18	19 x 0.25	1.17	1.30	22	2.31	2.46	15.19	16.07
BMS 13-58 T5	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05

DIMENSIONS AND WEIGHTS (INCH, POUND)

TYPE 5

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding	Diameter		Resistance at 20°C (68°F)	Diameter		Weight	
		(Nbr of Strands x Dia. of Strands in inch)	(inch)		(Ohms/1000ft)	(inch)		(Pounds/1000 ft)	
			Min.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T5	24	19 x 0.050	0.023	0.026	26.20	0.069	0.075	4.30	4.86
BMS 13-58 T5	22	19 x 0.0063	0.029	0.033	16.00	0.073	0.079	5.30	5.86
BMS 13-58 T5	22	19 x 0.0080	0.037	0.041	9.77	0.080	0.086	7.00	7.76
BMS 13-58 T5	18	19 x 0.010	0.046	0.051	6.70	0.091	0.097	10.20	10.80
BMS 13-58 T5	16	19 x 0.0113	0.052	0.058	4.76	0.095	0.103	11.60	12.80

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Type 2100

Flexible cables for high ambient temperatures

Filotex®

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
These cables are approved by the Air Ministry under
letters :

N°42707 STA/EQ/E2 (03-12-68)

Registered at the B.N.Aé : N° 6418 401

Operating voltage: 600 volts RMS

Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

2100

1050

Characteristics:

- ❑ These cables are designed for use at high ambient temperatures up to 289°C at peak,
- ❑ Excellent flame resistance,
- ❑ Non-flammable,
- ❑ They withstand most solvents.

Technical requirements and control conditions:

- ❑ Air4524 Specification of September 1965 - Category 250/280°C,
- ❑ NF.L 52-125A French Draft Specification – Category C, of July

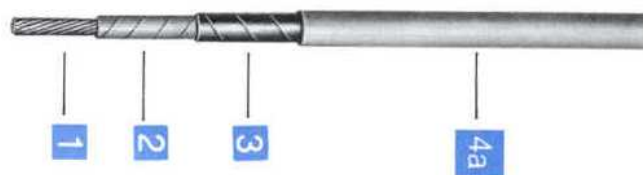
Interchangeability:

- ❑ MIL-W-22759 D Specification – Index 8 A of June 1973 and MS 18001 (up to 12 AWG).

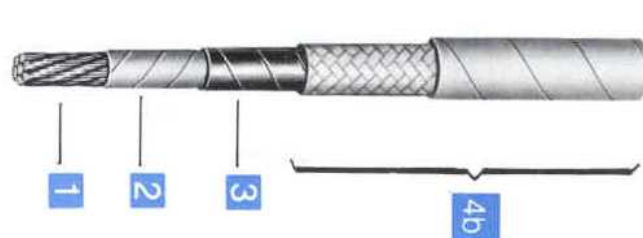
CONSTRUCTION

- ① CONDUCTOR :
Stranded nickel plated copper
 - ② Thin wrapped PTFE layer
 - ③ INSULATION:
Polyimide
 - ④ OUTER JACKET:
 - a) from 0.38 to 1.34 mm²:
extruded PTFE sheath (high abrasion resistance)
 - b) from 1.91 mm² :
composite glass fiber +
PTFE + wrapped and
sintered PTFE sheath.
- Colour coding: according to AIR0107 (10/1961).

Cross sections from 0.38 to 1.34 mm²



Cross sections from 1.91 mm²



MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR		CORE			ELECTRICAL VALUES	
			Construction	Nominal diameter	Overall diameter	Weight		D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional area	AWG	n x Ø mm	mm	mm	nomi. g/m	maxi. g/m	Ω / km	A
2100	0.38	22	12 x 0.20	0.85	1.90 ± 0.10	8.6	9.3	54.50	7
2100	0.60	20	19 x 0.20	1.00	2.20 ± 0.10	12.1	12.4	34.40	11
2100	0.98	18	19 x 0.25	1.25	2.40 ± 0.10	15.8	17	22.00	16
2100	1.34	16	19 x 0.30	1.50	2.70 ± 0.10	19.6	20	15.30	22
2100	1.91	14	27 x 0.30	1.85	2.95 ± 0.10	26.1	27	10.80	32
2100	3.18	12	45 x 0.30	2.40	3.60 ± 0.15	40.8	46.7	6.50	41
2100	5.15	10	73 x 0.30	3.10	4.20 ± 0.20	60.4	65	3.90	55
2100	8.98	8	127 x 0.30	4.00	5.30 ± 0.20	102	108	2.30	75
2100	13.40	6	27 x 7 x 0.30	5.10	7.00 ± 0.30	158	160	1.60	100
2100	21.80	4	37 x 12 x 0.25	6.60	9.00 ± 0.30	237	245	0.97	135
2100	34.50	2	37 x 19 x 0.25	8.20	10.60 ± 0.30	391	396	0.61	181
2100	41.80	1	37 x 23 x 0.25	9.80	11.80 ± 0.30	460	470	0.50	211
2100	52.70	0	37 x 29 x 0.25	10.80	13.10 ± 0.30	580	600	0.40	245
2100	67.20	00	37 x 37 x 0.25	12.40	14.20 ± 0.30	736	750	0.31	283

The currents shown are valid for single wires in air. For current ratings in bundle see Air 7822 Specification.



Filotex®

Type 2102

Flexible cables

for high ambient temperatures

Lightweight cables

PRODUCT REFERENCES

2102

CONSTRUCTION

① CONDUCTOR :

Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a good mechanical resistance)

② Thin wrapped PTFE layer allowing easy stripping

③ INSULATION:

Polyimide insulation closely bonded to the PTFE layer

④ OUTER JACKET:

Wrapped and fused PTFE sheath
Colour coding: according to AIR0107 (10/1961).

To AIR 4524, B.N.Aé

These cables are approved by the Air Ministry under letters :

N°34456 STA/EQ/E2 (03-05-74)

Registered at the B.N.Aé : N° 6418 403

Operating voltage: 600 volts RMS

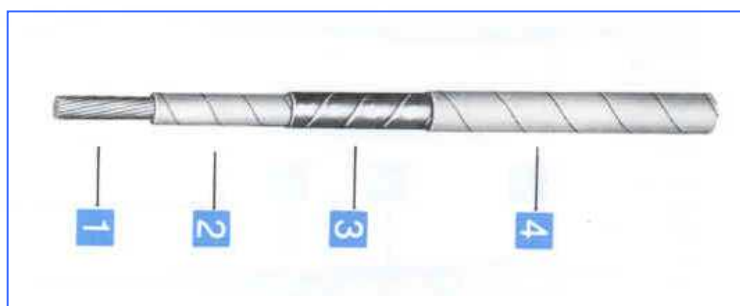
Operating temperature: - 50°C to + 250°C (ambient + rise)

Characteristics:

- ❑ These cables may be used at high ambient temperatures, up to 280°C at peak,
- ❑ Excellent flame resistance,
- ❑ Non-flammable,
- ❑ They withstand most solvents.

Technical requirements and control conditions:

- ❑ Air4524 Specification - Category 250/280°C,
- ❑ NF.L 52-125A French Draft Specification – Category C – Lightweight cables.



MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional area	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
2102	0.21	24	19 x 0.12 N.P.All.	0.58	7	1.40 ± 0.10	5.0	112.3	4
2102	0.38	22	12 x 0.20 N.P.C.	0.77	8	1.60 ± 0.10	7.1	54.5	7
2102	0.60	20	19 x 0.20 N.P.C.	0.97	16	1.80 ± 0.10	9.2	34.4	11
2102	0.93	18	19 x 0.25 N.P.C.	1.21	> 20	2.05 ± 0.10	13.0	22.0	16
2102	1.34	16	19 x 0.30 N.P.C.	1.45	> 20	2.30 ± 0.10	17.5	15.3	22
2102	1.91	14	27 x 0.30 N.P.C.	1.74	> 20	2.70 ± 0.15	24.8	10.8	32
2102	3.18	12	45 x 0.30 N.P.C.	2.25	> 20	3.25 ± 0.15	38.2	6.4	41

The currents shown are valid for single wires in air. For current ratings in bundle see Air 7822 Specification.

N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper



Filotex®

Type 2103 Flexible cables for high ambient temperatures

PRODUCT REFERENCES

2103

CONSTRUCTION

① CONDUCTOR :

Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a high mechanical resistance)

② Thin PTFE layer

③ INSULATION:

Polyimide insulation

④ PROTECTIVE INSULATION:

- PTFE + glass fiber tape coated with PTFE,
 - wrapped PTFE finish sheath
- These tapes are intimately bonded to each other.

To AIR 4524, B.N.Aé, MIL-W-22759B

These cables are approved by the Air Ministry under letters :

N°34672 STA/EQ/E3 (25-05-77) for cross-section from 0.38 mm² to 107.80 mm²

N°34672 STA/EQ/E3 (22-12-77) for cross-section 0.21 mm²

Registered at the B.N.Aé : N° 6418 404 A

Operating voltage: 600 volts RMS

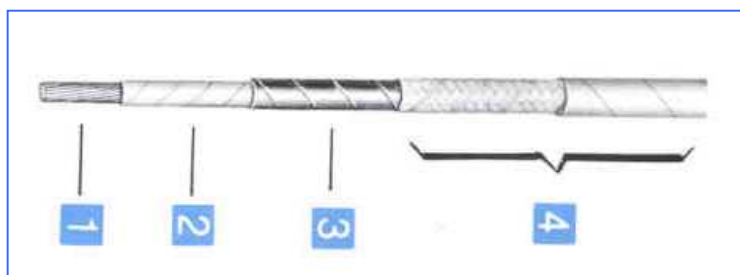
**Operating temperature: - 90°C to + 260°C
(ambient + rise)**

Characteristics:

- These cables may be used at high ambient temperatures, up to 300°C at peak,
- Vital circuits: they withstand overloads for 15 seconds to 2 minutes (870°C to 1040°C) according to MIL-W-7139 B Standard,
- Non-flammable
- Excellent soldering resistance,
- Good abrasion resistance,
- They withstand most solvents.

Technical requirements and control conditions:

- Air4524 Specification - Category 250/280°C,
- NF.L 52-125A French Draft Specification (high temperature cable),
- MIL-W-22759 B Specification Class 2 (Nickel-plated copper conductor).



MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter (max.)	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional area	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
2103	0.21	24	19 x 0.12 N.P.All.	0.65	7	1.80	5.60	112.30	4
2103	0.38	22	12 x 0.20 N.P.C.	0.85	8	1.95	7	54.50	7
2103	0.60	20	19 x 0.20 N.P.C.	1.03	16	2.10	9.40	34.40	11
2103	0.93	18	19 x 0.25 N.P.C.	1.28	> 20	2.20	13	22.00	16
2103	1.34	16	19 x 0.30 N.P.C.	1.53	> 20	2.80	18	15.30	22
2103	1.91	14	27 x 0.30 N.P.C.	1.87	> 20	3.20	25	10.80	32
2103	3.18	12	45 x 0.30 N.P.C.	2.40	> 20	3.70	38.5	6.40	41
2103	5.15	10	73 x 0.30 N.P.C.	3.10	> 20	4.35	60	3.98	55
2103	8.98	8	127 x 0.30 N.P.C.	4.20	> 20	5.55	101	2.29	75
2103	13.40	6	27 x 7 x 0.30 N.P.C.	5.60	> 20	7.30	148	1.58	100
2103	21.80	4	37 x 12 x 0.25 N.P.C.	7.30	> 20	9.30	227	0.97	135
2103	34.50	2	37 x 19 x 0.25 N.P.C.	8.80	> 20	10.90	367	0.61	181
2103	41.80	1	37 x 23 x 0.25 N.P.C.	9.80	> 20	12.10	430	0.50	211
2103	52.70	0	37 x 29 x 0.25 N.P.C.	10.80	> 20	13.40	540	0.40	245
2103	67.20	00	37 x 37 x 0.25 N.P.C.	12.40	> 20	14.50	675	0.31	283
2103	84.80	000	48 x 36 x 0.25 N.P.C.	13.80	> 20	16.90	965	0.25	328
2103	107.80	0000	61 x 36 x 0.25 N.P.C.	15.80	> 20	18.70	1150	0.19	380

The currents shown are valid for single wires in air. For current ratings in bundle see Air 7822 Specification.

N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper

Colour coding: according to AIR0107 A Specification (10/1961).

Other colour codings on request (stripes or printed identification).



Filotex®

Type 1050 Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58

Operating voltage: 600 volts RMS

**Operating temperature: - 50°C to + 250°C
(ambient + rise)**

PRODUCT REFERENCES

1050

2100

CONSTRUCTION

1,2 or 3 cores, Type 2100
covered with:

- ① A braided screen made up of nickel plated copper
- ② A Polyimide sheath
- ③ A wrapped and sintered PTFE sheath

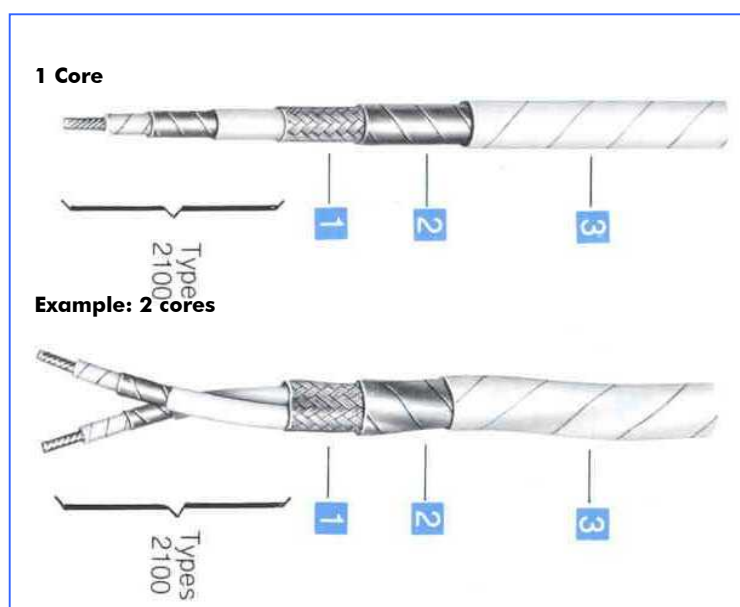
Characteristics:

Same as 2100 cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:

- ☐ Very good electrical insulation of the screen,
- ☐ Very efficient protection of the screen against oxidation and corrosion,
- ☐ Easy fitting of the cable,
- ☐ Good mechanical protection of the screen,
- ☐ Safer handling.

Technical requirements and control conditions:

- ☐ Cores: see data sheet on type '2100',
- ☐ Screen: MIL-7078 of August 1971,
- ☐ Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.



MECHANICAL & ELECTRICAL VALUES

References			2100 CORES				SCREEN AND PROTECTION			
			Gauge	Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional area	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1050	1	0.38	22	12 x 0.20 NPC	1.90	White	12/100	White	3.2	20.8
1050	1	0.60	20	19 x 0.20 NPC	2.20	Light blue	12/100	Blue	3.5	25.9
1050	1	0.93	18	19 x 0.25 NPC	2.40	White	12/100	White	3.8	30.8
1050	1	1.34	16	19 x 0.30 NPC	2.70	Light blue	12/100	Blue	4.1	36.3
1050	1	1.91	14	27 x 0.30 NPC	2.95	White	12/100	White	4.4	44.3
1050	2	0.38	22	12 x 0.20 NPC	1.90	White + blue	12/100	White	5.3	42.2
1050	2	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue	12/100	Blue	5.9	51.0
1050	2	0.93	18	19 x 0.25 NPC	2.40	White + blue	12/100	White	6.3	63.2
1050	2	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue	12/100	Blue	6.9	75.2
1050	2	1.91	14	27 x 0.30 NPC	2.95	White + blue	12/100	White	7.6	92.6
1050	3	0.38	22	12 x 0.20 NPC	1.90	White + blue + Yellow	12/100	White	5.6	53.0
1050	3	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	6.2	66.1
1050	3	0.93	18	19 x 0.25 NPC	2.40	White + blue + Yellow	12/100	White	6.6	82.7
1050	3	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue + Yellow	12/100	Blue	7.3	98.6
1050	3	1.91	14	27 x 0.30 NPC	2.95	White + blue + Yellow	12/100	White	8.1	122.3

The currents shown are valid for single wires in air. For current ratings in bundle see Air 7822 Specification.

N.P.C. = Nickel plated copper



Type 1052 Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé

Operating voltage: 600 volts RMS

Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

1052

2102

CONSTRUCTION

1,2 or 3 cores, Type 2102 covered with:

- ① A braided screen made up of nickel plated copper
- ② A Polyimide sheath
- ③ A wrapped and sintered PTFE overall sheath

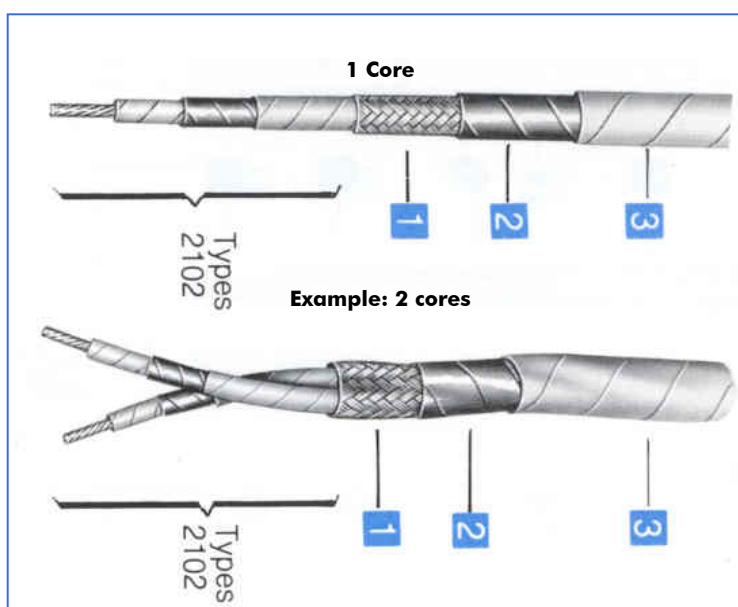
Characteristics:

Same as 2102 basic cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:

- ❑ Very good electrical insulation of the screen,
- ❑ Very efficient protection of the screen against oxidation and corrosion,
- ❑ Easy fitting of the cable,
- ❑ Safer handling.

Technical requirements and control conditions:

- ❑ Cores: see data sheet on type '2102',
- ❑ Screen: MIL-C 7078 of August 1971,
- ❑ Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.



MECHANICAL & ELECTRICAL VALUES

References			2100 CORES				SCREEN AND PROTECTION			
			Gauge	Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional area	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1052	1	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue	10/100	Blue	2.6	13.3
1052	1	0.38	22	12 x 0.20 NPC	1.60	White	10/100	White	2.8	16.5
1052	1	0.60	20	19 x 0.20 NPC	1.80	Light blue	10/100	Blue	2.9	19.1
1052	1	0.93	18	19 x 0.25 NPC	2.05	White	10/100	White	3.2	24.0
1052	1	1.34	16	19 x 0.30 NPC	2.30	Light blue	12/100	Blue	3.7	32.2
1052	1	1.91	14	27 x 0.30 NPC	2.70	White	12/100	White	4.0	41.1
1052	2	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue + blue	12/100	Blue	4.2	29.3
1052	2	0.38	22	12 x 0.20 NPC	1.60	White + blue	12/100	White	4.7	36.6
1052	2	0.60	20	19 x 0.20 NPC	1.80	Light blue + blue	12/100	Blue	5.0	42.2
1052	2	0.93	18	19 x 0.25 NPC	2.05	White + blue	12/100	White	5.5	53.0
1052	2	1.34	16	19 x 0.30 NPC	2.30	Light blue + blue	12/100	Blue	6.3	66.7
1052	2	1.91	14	27 x 0.30 NPC	2.70	White + blue	12/100	White	7.0	85.9
1052	3	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue + blue + Yellow	12/100	Blue	4.4	46.2
1052	3	0.38	22	12 x 0.20 NPC	1.60	White + blue + Yellow	12/100	White	5.1	45.6
1052	3	0.60	20	19 x 0.20 NPC	1.80	Light blue + blue + Yellow	12/100	Blue	5.3	53.8
1052	3	0.93	18	19 x 0.25 NPC	2.05	White + blue + Yellow	12/100	White	5.8	68.8
1052	3	1.34	16	19 x 0.30 NPC	2.30	Light blue + blue + Yellow	12/100	Blue	6.7	90.0
1052	3	1.91	14	27 x 0.30 NPC	2.70	White + blue + Yellow	12/100	White	7.6	115.5

N.P. All. = Nickel plated copper alloy N.P.C. = Nickel plated annealed electrolytic copper



Filotex®

Type 1053 Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759B & MIL-C-7078C

Operating voltage: 600 volts RMS

**Operating temperature: - 90°C to + 260°C
(ambient + rise)**

PRODUCT REFERENCES

1053

2103

CONSTRUCTION

1,2 or 3 cores, Type 2103
covered with:

- ① A braided screen made up of nickel plated copper (62% minimum coverage)
- ② A Polyimide sheath
- ③ A wrapped and sintered PTFE sheath

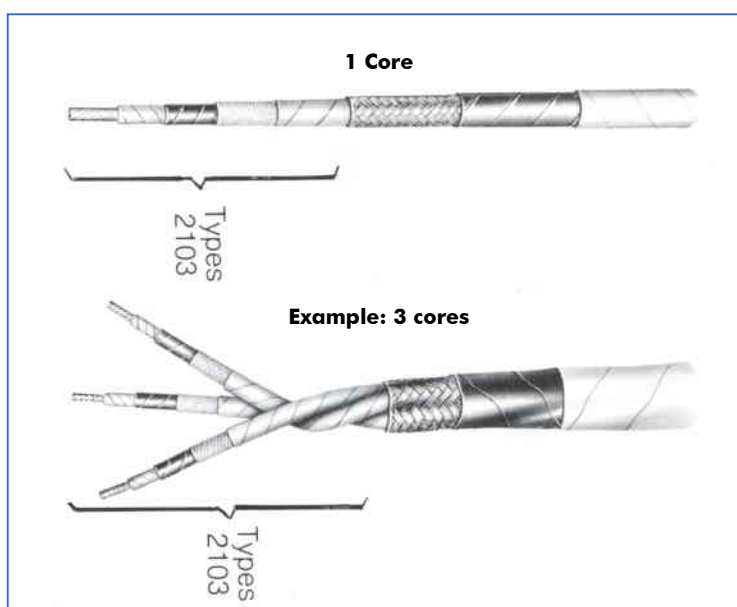
Characteristics:

Same as 2103 basic cores. Moreover, the polyimide and PTFE protective sheaths provide the following advantages:

- ❑ Very good electrical insulation of the screen,
- ❑ Very efficient protection of the screen against oxidation and corrosion,
- ❑ Easy fitting of the cable,
- ❑ Safer handling.

Technical requirements and control conditions:

- ❑ Cores: see data sheet on type '2103',
- ❑ Screen: MIL-C-7078 C Specification of August 1971,
- ❑ Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.



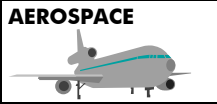
MECHANICAL & ELECTRICAL VALUES

References			2100 CORES				SCREEN AND PROTECTION			
			Gauge	Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional area	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1053	1	0.38	22	12 x 0.20 NPC	1.80	White	10/100	White	2.9	16.5
1053	1	0.60	20	19 x 0.20 NPC	1.95	Light blue	10/100	Blue	3.0	19.3
1053	1	0.93	18	19 x 0.25 NPC	2.10	White	10/100	White	3.2	24.0
1053	1	1.34	16	19 x 0.30 NPC	2.20	Light blue	12/100	Blue	4.1	32.7
1053	1	1.91	14	27 x 0.30 NPC	2.80	White	12/100	White	4.4	41.3
1053	2	0.38	22	12 x 0.20 NPC	1.80	White + blue	12/100	White	4.9	38.0
1053	2	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue	12/100	Blue	5.2	44.0
1053	2	0.93	18	19 x 0.25 NPC	2.10	White + blue	12/100	White	5.5	56.0
1053	2	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue	12/100	Blue	7.1	70.0
1053	2	1.91	14	27 x 0.30 NPC	2.80	White + blue	12/100	White	7.8	91.0
1053	3	0.38	22	12 x 0.20 NPC	1.80	White + blue + Yellow	12/100	White	5.4	48.0
1053	3	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue + Yellow	12/100	Blue	5.6	57.0
1053	3	0.93	18	19 x 0.25 NPC	2.10	White + blue + Yellow	12/100	White	5.8	73.0
1053	3	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	7.5	95.0
1053	3	1.91	14	27 x 0.30 NPC	2.80	White + blue + Yellow	12/100	White	8.4	121.0

The currents shown are valid for single wires in air. For current ratings in bundle see Air 7822 Specification.

This cable type accommodates connectors according to MIL-C-83723 Specification

N.P.C. = Nickel plated annealed electrolytic copper



Type TMF High Temperature Fire Resistant Wires

Filotex®

High Temperature and Fire Resistant Aero-Engines Wires

PRODUCT REFERENCES

TMF
TMF SJ

CONSTRUCTION

CONDUCTOR

- ① 19 Strands of Nickel Clad Copper Conductor.

INSULATION

- ② Special Fire Resistant Composite Insulation.
- ③ PTFE Tape(s).

Characteristics

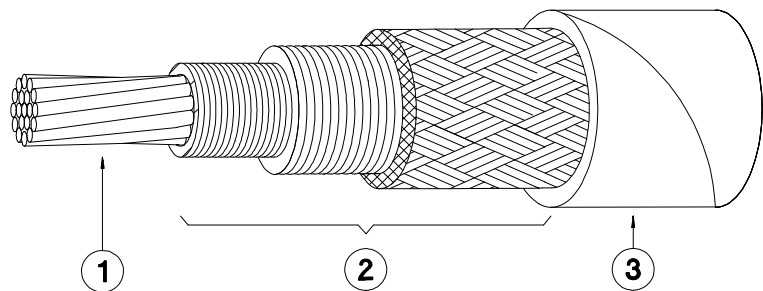
- ❑ Voltage Rating : 600 Volts RMS.
- ❑ Low Operating Temperature : -65°C (-85°F)
- ❑ High Operating Temperature: +260°C (+500°F)
- ❑ Operating Frequency : up to 2000 Hz
- ❑ Dimensions and weight : see table on this data sheet
- ❑ Very Good Fire Résistance : Pass BMS 13-55 and M25038 Fire Test (Aged and Unaged)
- ❑ Good resistance to aircraft fluids
- ❑ Good mechanical and electrical performances

Applications

- ❑ Heavy Duty Applications in Aero-engines and High Temperature Areas.

Specification

- ❑ MIL W 25038/1 and BMS 13-55 For Fire Tests.
- ❑ MILITARY QPL APPROVAL.



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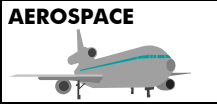
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DIMENSIONS AND WEIGHTS (Imperial Units)

FILOTEX PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of Strands x AWG Gauge of Strands)	Diameter (inch)		Resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter (inch)		Weight (lb/1000ft)
			Nom.	Max.		Mini.	Max.	
TMF-1-22	22	19 x 34	0.031	0.033	23.7	0.100	0.116	10.0
TMF-1-20	20	19 x 32	0.039	0.041	14.6	0.109	0.125	12.0
TMF-1-18	18	19 x 30	0.048	0.052	9.14	0.119	0.135	15.0
TMF-1-16	16	19 x 29	0.055	0.061	6.85	0.127	0.147	19.0
TMF-1-14	14	19 x 27	0.069	0.074	4.32	0.150	0.170	25.0
TMF-1-12	12	19 x 25	0.087	0.093	2.78	0.165	0.185	35.0
TMF-1-10	10	49 x 27	0.122	0.128	1.68	0.210	0.230	55.0
TMF-1-8	8	133 x 29	0.159	0.176	0.936	0.256	0.280	85.0
TMF-1-6	6	133 x 27	0.200	0.218	0.591	0.318	0.342	127
TMF-1-4	4	133 x 25	0.253	0.272	0.375	0.383	0.407	192
TMF-1-2	2	665 x 30	0.315	0.345	0.241	0.460	0.484	291
TMF-1-1	1	817 x 30	0.350	0.384	0.196	0.497	0.533	347
TMF-1-01	0	1045 x 30	0.395	0.432	0.153	0.537	0.573	415
TMF-1-02	00	1330 x 30	0.446	0.490	0.120	0.595	0.635	520
TMF-1-03	000	1672 x 30	0.505	0.548	0.096	0.660	0.700	648
TMF-1-04	0000	2109 x 30	0.562	0.615	0.077	0.730	0.770	793

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of Strands x Diam. of Strands in mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.		Nom.	Max.	
TMF-1-22	22	19 x 0.160	0.78	0.84	77.8	2.54	2.94	14.9
TMF-1-20	20	19 x 0.203	0.98	1.04	47.9	2.77	3.17	17.9
TMF-1-18	18	19 x 0.254	1.22	1.32	30.0	3.03	3.43	22.3
TMF-1-16	16	19 x 0.287	1.40	1.55	22.5	3.23	3.73	28.3
TMF-1-14	14	19 x 0.361	1.76	1.88	14.8	3.81	4.31	37.2
TMF-1-12	12	19 x 0.455	2.20	2.36	9.12	4.20	4.70	52.1
TMF-1-10	10	7 x 7 x 0.360	3.09	3.25	5.51	5.30	5.84	81.8
TMF-1-8	8	19 x 7 x 0.287	4.05	4.47	3.07	6.50	7.12	127
TMF-1-6	6	19 x 7 x 0.361	5.09	5.54	1.94	8.10	8.69	189
TMF-1-4	4	19 x 7 x 0.455	6.42	6.91	1.23	9.70	10.4	286
TMF-1-2	2	19 x 35 x 0.254	8.01	8.76	0.790	11.7	12.3	433
TMF-1-1	1	19 x 43 x 0.254	8.88	9.75	0.643	12.6	13.6	516
TMF-1-01	0	19 x 55 x 0.254	10.04	10.97	0.502	13.6	14.6	618
TMF-1-02	00	19 x 70 x 0.254	11.33	12.45	0.394	15.1	16.1	774
TMF-1-03	000	37 x 46 x 0.254	12.82	13.92	0.315	16.8	17.8	964
TMF-1-04	0000	37 x 57 x 0.254	14.27	15.62	0.253	18.5	19.6	1180



Filotex®

Type TMF-VRA-US TMF-VR-US

High Temperature Fire Resistant Cables

High Temperature and Fire Resistant Aero-Engines Cables

PRODUCT REFERENCES

TMF
TMF SJ

CONSTRUCTION

CONDUCTOR

- ① **Filotex® TMF-VRA-US**
Nickel Clad High Strength
Copper Alloy Conductor
for AWG 22, 22H and 20
- Filotex® TMF-VR-US**
Nickel Clad Copper
Conductor for other AWG

INSULATION

- ② Special Fire Resistant
Composite Insulation
- ③ PTFE Tape(s)

Characteristics

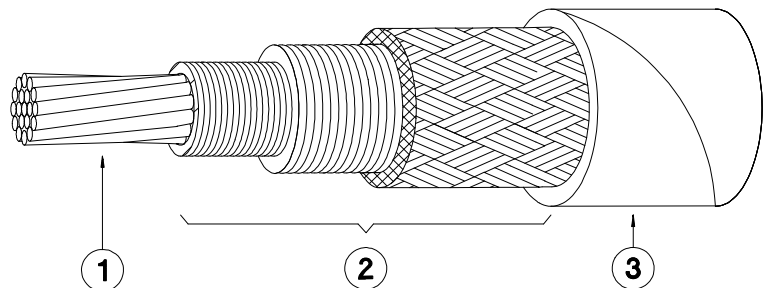
- ❑ Voltage Rating : 600 Volts RMS.
- ❑ Low Operating Temperature : -65°C (-85°F)
- ❑ High Operating Temperature : +260°C (+500°F)
- ❑ Operating Frequency : Up to 2000 Hz.
- ❑ Dimensions and weight : See table on this data sheet
- ❑ Very Good Fire Résistance : According to MIL W 25038
- ❑ Good resistance to aircraft fluids
- ❑ Good mechanical and electrical performances

Applications

- ❑ Heavy Duty Applications in Aero-engines and High Temperature Areas

Specification

- ❑ MIL W 25038/3
- ❑ MILITARY QPL APPROVAL



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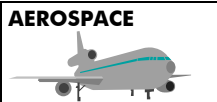
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DIMENSIONS AND WEIGHTS (Imperial Units)

FILOTEX PART NUMBER	US AWG	Conductor		Finished Wire				
		Stranding (Nbr of Strands x AWG Gauge of Strands)	O.D. (inch)		Resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter (inch)		Weight (lb/1000ft)
			Nom.	Max.		Mini.	Max.	
TMF-VRA-US-22	22	19 x 34	0.031	0.033	23.70	0.040	0.054	4.15
TMF-VRA-US-22H	22	19 x 34	0.031	0.033	23.70	0.055	0.075	6.00
TMF-VRA-US-20	20	19 x 32	0.039	0.041	15.27	0.048	0.083	9.00
TMF-VR-US-18	18	19 x 30	0.048	0.052	8.50	0.065	0.097	10.5
TMF-VR-US-16	16	19 x 29	0.055	0.061	6.66	0.068	0.103	13.5
TMF-VR-US-14	14	19 x 27	0.069	0.074	4.32	0.097	0.123	19.5
TMF-VR-US-12	12	19 x 25	0.088	0.093	2.78	0.100	0.142	28.0

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor		Finished Wire				
		Stranding (Nbr of Strands x Diam. of Strands in mm)	O.D. (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.		Mini.	Max.	
TMF-VRA-US-22	22	19 x 0.160	0.78	0.84	77.8	1.02	1.37	6.18
TMF-VRA-US-22H	22	19 x 0.160	0.78	0.84	77.8	1.40	1.91	8.90
TMF-VRA-US-20	20	19 x 0.203	0.99	1.04	50.1	1.22	2.11	13.40
TMF-VR-US-18	18	19 x 0.254	1.22	1.32	30.0	1.65	2.46	15.60
TMF-VR-US-16	16	19 x 0.287	1.40	1.55	22.5	1.73	2.62	20.10
TMF-VR-US-14	14	19 x 0.361	1.76	1.88	14.2	2.46	3.12	29.00
TMF-VR-US-12	12	19 x 0.455	2.23	2.36	9.12	2.54	3.61	41.70



Filotex®

Type FRM-A-US
FRM-US

High Temperature Fire Resistant Cables

Aero Engines, Fire Zone Applications

PRODUCT REFERENCES

FRM-A-US
FRM-US

Applications

- ☐ Fire Resistant Cable

Characteristics

- ☐ Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- ☐ Operating Temperature : -65°C/+260°C (-85°F/+500°F)
- ☐ Dimensions and Weights : See Table on Reverse Side of this Data Sheet

Specification

- ☐ MIL W 25038/3

CONSTRUCTION

① CONDUCTOR

Filotex® FRM-A-US

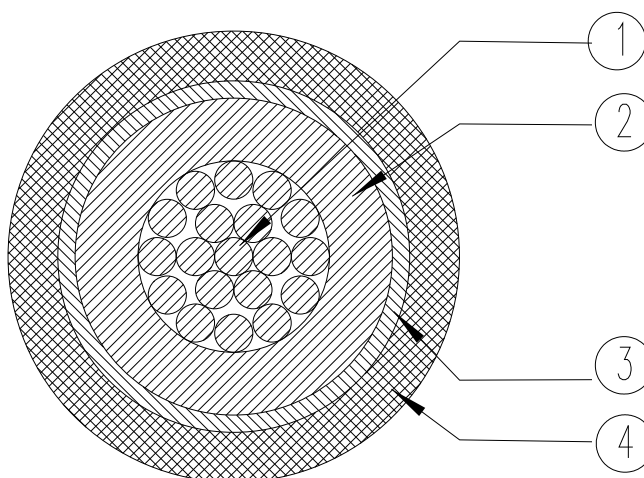
Nickel Clad High Strength
Copper Alloy Conductor
for AWG 22, 22H and 20

Filotex® FRM-US

Nickel Clad Copper
Conductor for other AWG

INSULATION

- ② Inorganic barrier
- ③ Polyimide Tape
- ④ PTFE Tape



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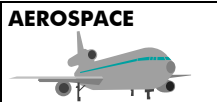
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DIMENSIONS AND WEIGHTS (INCH, POUND)

US AWG	Conductors			Finished Wire				
	Strands (No / AWG)	O.D. (inch)		Maximum DC Resistance (Ohms/1000 ft) at 23°C (73°F)	Diameter (inch)			Weight (lb/1000ft) Nom.
		Nom.	Max.		Min.	Nom.	Max.	
22	19/34	0.031	0.033	23.70	0.040	0.053	0.054	3.37
22H	19/34	0.031	0.033	23.70	0.055	0.060	0.075	3.84
20	19/32	0.039	0.041	15.27	0.048	0.067	0.083	5.38
18	19/30	0.049	0.052	8.50	0.065	0.077	0.097	7.72
16	19/29	0.055	0.061	6.66	0.068	0.084	0.103	9.75
14	19/27	0.069	0.074	4.32	0.097	0.101	0.123	14.95
12	19/25	0.087	0.093	2.78	0.100	0.118	0.142	22.20

DIMENSIONS AND WEIGHTS (METRIC)

US AWG	Conductors			Finished Wire				
	Strands (No / AWG)	O.D. (mm)		Maximum DC Resistance (Ohms/Km) at 23°C (73°F)	Diameter (mm)			Weight (Kg/Km) Nom.
		Nom.	Max.		Min.	Nom.	Max.	
22	19/34	0.78	0.84	77.8	1.02	1.34	1.37	5.01
22H	19/34	0.78	0.84	77.8	1.40	1.52	1.91	5.72
20	19/32	0.99	1.04	50.1	1.22	1.71	2.11	8.00
18	19/30	1.24	1.32	27.9	1.65	1.95	2.46	11.49
16	19/29	1.40	1.55	21.8	1.73	2.13	2.62	14.51
14	19/27	1.76	1.88	14.2	2.46	2.56	3.12	22.24
12	19/25	2.20	2.36	9.12	2.54	3.00	3.61	33.03



Filotex®

M27500A** JF + N 06 High Temperature Fire Resistant Shielded and Jacketed Cables

PRODUCT REFERENCES

FRM-(A)-US

M27500A JF + N 06**

CONSTRUCTION

CORES

- ① Filotex® FRM-A-US for
AWG 22 and 20
Filotex® FRM-US for
other AWG

SCREEN

- ② Nickel Clad Copper
Braided Screen

JACKET

- ③④ PTFE Tapes

Characteristics

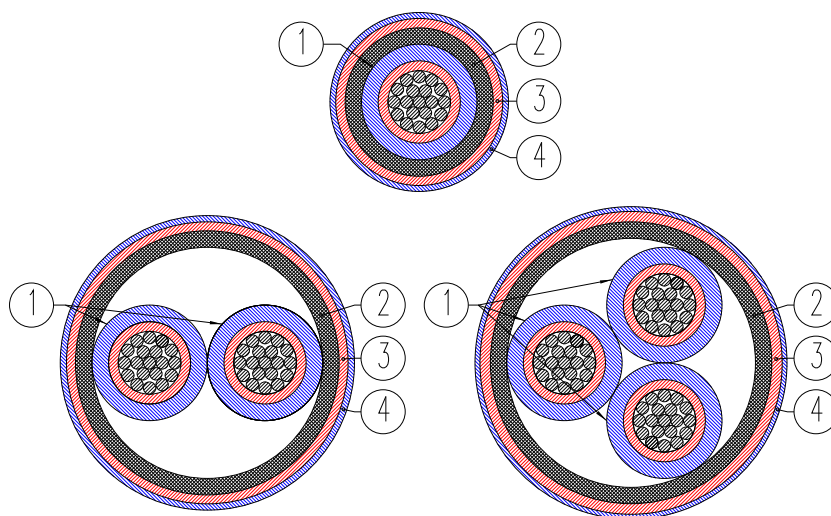
- ❑ Voltage Rating : 600 Volts RMS.
- ❑ Low Operating Temperature : -65°C (-85°F)
- ❑ High Operating Temperature : +260°C (+500°F)
- ❑ Operating Frequency : up to 2000 Hz.
- ❑ Dimensions and weight : see table on this data sheet.
- ❑ Good Fire Résistance.
- ❑ Good resistance to aircraft fluids.
- ❑ Good mechanical and electrical performances

Applications

- ❑ Fire Resistant Cable

Specification

- ❑ MIL W 25038/3
- ❑ MIL DTL 27500



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DIMENSIONS AND WEIGHTS (Imperial Units)

PART NUMBERS	US AWG	Number of Cores	Screen		Finished Cable				
			Strands	O.D.	Resistance at 20°C (68°F)	Diameter		Weight	
			AWG Size	(inch) Nom.	of Cores (Ohms/1000 ft)	(inch)		(lb/1000ft)	
					Max.	Nom.	Max.	Nom.	Max.
M27500A22 JF 1 N 06	22	1	38	0.069	23.7	0.094	0.111	9.33	12.86
M27500A20 JF 1 N 06	20	1	36	0.088	15.27	0.113	0.146	13.92	22.88
M27500A18 JF 1 N 06	18	1	36	0.097	8.53	0.122	0.159	17.19	26.12
M27500A16 JF 1 N 06	16	1	36	0.104	6.67	0.130	0.166	19.91	29.99
M27500A14 JF 1 N 06	14	1	36	0.121	4.33	0.146	0.185	26.75	38.55
M27500A12 JF 1 N 06	12	1	36	0.139	2.78	0.164	0.205	35.69	49.67
M27500A22 JF 2 N 06	22	2	36	0.126	24.2	0.151	0.170	17.27	23.92
M27500A20 JF 2 N 06	20	2	36	0.155	15.58	0.180	0.229	23.69	40.38
M27500A18 JF 2 N 06	18	2	36	0.174	8.72	0.199	0.256	29.98	46.50
M27500A16 JF 2 N 06	16	2	36	0.188	6.80	0.213	0.269	35.25	54.09
M27500A14 JF 2 N 06	14	2	36	0.222	4.39	0.247	0.308	48.55	70.72
M27500A12 JF 2 N 06	12	2	36	0.257	2.83	0.282	0.347	66.10	92.48
M27500A22 JF 3 N 06	22	3	36	0.134	24.2	0.159	0.179	22.34	30.18
M27500A20 JF 3 N 06	20	3	36	0.166	15.58	0.191	0.242	31.26	52.68
M27500A18 JF 3 N 06	18	3	36	0.186	8.72	0.211	0.272	40.24	60.83
M27500A16 JF 3 N 06	16	3	36	0.201	6.80	0.226	0.285	47.80	71.73
M27500A14 JF 3 N 06	14	3	36	0.238	4.39	0.263	0.328	66.92	95.21
M27500A12 JF 3 N 06	12	3	36	0.275	2.83	0.300	0.370	92.40	126.40

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Number of Cores	Screen		Finished Cable				
			Strands (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
					Max.	Nom.	Max.	Nom.	Max.
M27500A22 JF 1 N 06	22	1	0.10	1.74	77.8	2.38	2.83	13.89	19.13
M27500A20 JF 1 N 06	20	1	0.13	2.23	50.1	2.87	3.70	20.72	34.05
M27500A18 JF 1 N 06	18	1	0.13	2.47	28.0	3.11	4.05	25.58	38.86
M27500A16 JF 1 N 06	16	1	0.13	2.65	21.9	3.29	4.21	29.63	44.62
M27500A14 JF 1 N 06	14	1	0.13	3.08	14.2	3.72	4.71	39.81	57.36
M27500A12 JF 1 N 06	12	1	0.13	3.52	9.12	4.16	5.20	53.11	73.91
M27500A22 JF 2 N 06	22	2	0.13	3.20	79.4	3.84	4.33	25.70	35.60
M27500A20 JF 2 N 06	20	2	0.13	3.94	51.1	4.58	5.81	35.26	60.09
M27500A18 JF 2 N 06	18	2	0.13	4.42	28.6	5.06	6.51	44.62	69.19
M27500A16 JF 2 N 06	16	2	0.13	4.78	22.3	5.42	6.83	52.46	80.48
M27500A14 JF 2 N 06	14	2	0.13	5.64	14.4	6.28	7.83	72.24	105.23
M27500A12 JF 2 N 06	12	2	0.13	6.52	9.3	7.16	8.81	98.36	137.61
M27500A22 JF 3 N 06	22	3	0.13	3.41	79.4	4.05	4.55	33.25	44.91
M27500A20 JF 3 N 06	20	3	0.13	4.21	51.1	4.84	6.15	46.52	78.39
M27500A18 JF 3 N 06	18	3	0.13	4.72	28.6	5.36	6.91	59.88	90.51
M27500A16 JF 3 N 06	16	3	0.13	5.11	22.3	5.75	7.25	71.13	106.74
M27500A14 JF 3 N 06	14	3	0.13	6.04	14.4	6.68	8.33	99.58	141.67
M27500A12 JF 3 N 06	12	3	0.13	6.99	9.3	7.62	9.39	137.50	188.08

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Filotex[®]

M27500A** JF + N 24

High Temperature Fire Resistant Shielded and Jacketed Cables

PRODUCT REFERENCES

FRM-(A)-US

M27500A JF + N 24**

CONSTRUCTION

CORES

- ① **Filotex[®] FRM-A-US** for AWG 22 and 20
Filotex[®] FRM-US for other AWG

SCREEN

- ② Nickel Clad Copper Braided Screen

JACKET

- ③ Polyimide Tape
- ④ UV PTFE Tapes

Characteristics

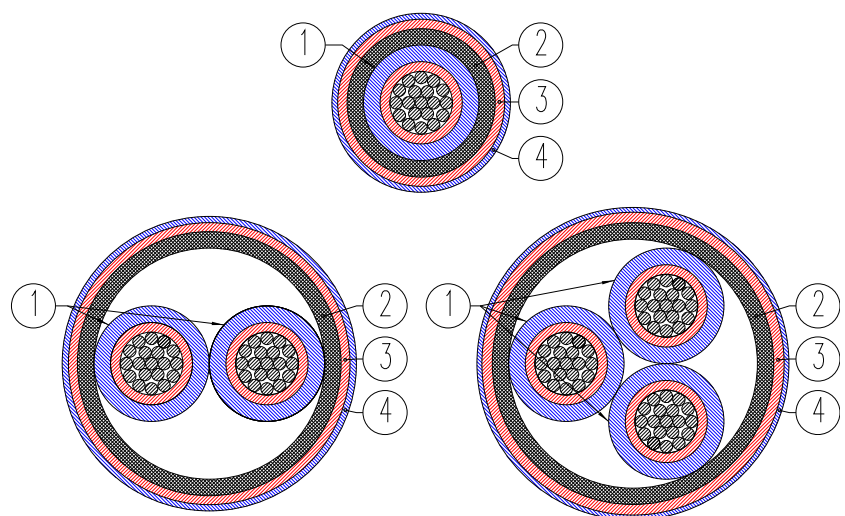
- ❑ Voltage Rating : 600 Volts RMS.
- ❑ Low Operating Temperature : -65°C (-85°F)
- ❑ High Operating Temperature : +200°C (+392°F)
- ❑ Operating Frequency : up to 2000 Hz.
- ❑ Dimensions and weight : see table on this data sheet.
- ❑ Good Fire Resistance.
- ❑ Good resistance to aircraft fluids.
- ❑ Good mechanical and electrical performances

Applications

- ❑ Fire Resistant Cable

Specification

- ❑ MIL W 25038/3
- ❑ MIL DTL 27500



DIMENSIONS AND WEIGHTS (Imperial Units)

PART NUMBERS	US AWG	Number of Cores	Screen		Finished Cable				
			Strands	O.D.	Resistance at 20°C (68°F)	Diameter		Weight	
			AWG Size	(inch) Nom.	of Cores (Ohms/1000 ft)	(inch)	(inch)	(lb/1000ft)	(lb/1000ft)
					Max.	Nom.	Max.	Nom.	Max.
M27500A22 JF 1 N 24	22	1	38	0.069	23.7	0.083	0.095	7.69	9.97
M27500A20 JF 1 N 24	20	1	36	0.091	15.27	0.105	0.130	12.23	19.01
M27500A18 JF 1 N 24	18	1	36	0.100	8.53	0.115	0.144	15.34	21.84
M27500A16 JF 1 N 24	16	1	36	0.107	6.67	0.122	0.150	17.96	25.53
M27500A14 JF 1 N 24	14	1	36	0.124	4.33	0.139	0.170	24.53	33.53
M27500A12 JF 1 N 24	12	1	36	0.142	2.78	0.156	0.189	33.17	44.13
M27500A22 JF 2 N 24	22	2	36	0.126	24.2	0.141	0.155	14.95	19.64
M27500A20 JF 2 N 24	20	2	36	0.161	15.58	0.175	0.213	21.45	34.59
M27500A18 JF 2 N 24	18	2	36	0.180	8.72	0.194	0.241	27.49	39.99
M27500A16 JF 2 N 24	16	2	36	0.194	6.80	0.209	0.253	32.60	47.25
M27500A14 JF 2 N 24	14	2	36	0.228	4.39	0.243	0.293	45.46	62.86
M27500A12 JF 2 N 24	12	2	36	0.263	2.83	0.278	0.331	62.53	83.62
M27500A22 JF 3 N 24	22	3	36	0.134	24.2	0.149	0.163	19.73	25.44
M27500A20 JF 3 N 24	20	3	36	0.172	15.58	0.186	0.226	28.78	46.17
M27500A18 JF 3 N 24	18	3	36	0.192	8.72	0.207	0.256	37.46	53.48
M27500A16 JF 3 N 24	16	3	36	0.208	6.80	0.222	0.270	44.84	64.01
M27500A14 JF 3 N 24	14	3	36	0.244	4.39	0.259	0.312	63.43	86.29
M27500A12 JF 3 N 24	12	3	36	0.282	2.83	0.296	0.354	88.35	116.31

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AW G	Number of Cores	Screen		Finished Cable				
			Strands (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
					Max.	Nom.	Max.	Nom.	Max.
M27500A22 JF 1 N 24	22	1	0.10	1.74	77.8	2.11	2.42	11.44	14.84
M27500A20 JF 1 N 24	20	1	0.13	2.30	50.1	2.67	3.30	18.20	28.28
M27500A18 JF 1 N 24	18	1	0.13	2.54	28.0	2.91	3.65	22.82	32.50
M27500A16 JF 1 N 24	16	1	0.13	2.73	21.9	3.10	3.81	26.73	37.99
M27500A14 JF 1 N 24	14	1	0.13	3.16	14.2	3.53	4.31	36.50	49.89
M27500A12 JF 1 N 24	12	1	0.13	3.60	9.12	3.97	4.80	49.36	65.67
M27500A22 JF 2 N 24	22	2	0.13	3.20	79.4	3.57	3.93	22.25	29.23
M27500A20 JF 2 N 24	20	2	0.13	4.08	51.1	4.45	5.41	31.92	51.47
M27500A18 JF 2 N 24	18	2	0.13	4.56	28.6	4.93	6.11	40.90	59.51
M27500A16 JF 2 N 24	16	2	0.13	4.94	22.3	5.31	6.43	48.51	70.31
M27500A14 JF 2 N 24	14	2	0.13	5.80	14.4	6.17	7.43	67.64	93.54
M27500A12 JF 2 N 24	12	2	0.13	6.68	9.3	7.05	8.41	93.04	124.43
M27500A22 JF 3 N 24	22	3	0.13	3.41	79.4	3.78	4.15	29.36	37.85
M27500A20 JF 3 N 24	20	3	0.13	4.36	51.1	4.73	5.75	42.83	68.70
M27500A18 JF 3 N 24	18	3	0.13	4.87	28.6	5.25	6.50	55.74	79.58
M27500A16 JF 3 N 24	16	3	0.13	5.28	22.3	5.65	6.85	66.72	95.25
M27500A14 JF 3 N 24	14	3	0.13	6.21	14.4	6.58	7.93	94.39	128.40
M27500A12 JF 3 N 24	12	3	0.13	7.16	9.3	7.53	8.99	131.47	173.07

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BMS 13-55 Type 2 Class 1 High Temperature Fire Resistant Wires

Filotex[®]

High Temperature and Fire Resistant Aero-Engines Wires

PRODUCT REFERENCES

BMS 13-55 T2

BMS 13-55 T1

CONSTRUCTION

CONDUCTOR

① Made up with Nickel. Clad high strength. Copper alloy strands.

INSULATION

② Impregnated inorganic fiber.

③ TFE coated glass braid.

④ PTFE tapes (fused)

Characteristics

- ❑ Voltage rating : 600 Volts RMS,
- ❑ Low operating temperature : -65 °C (-85 °F),
- ❑ High operating temperature : +260 °C (+500 °F),
- ❑ Operating frequency : up to 2000 Hz,
- ❑ Dimensions and weight : see table on reverse of this datasheet,
- ❑ Very good fire resistance : BMS 13-55 fire test (aged and unaged),
- ❑ Very good mechanical and electrical performances,
- ❑ Good resistance to aircraft fluids.

Identification

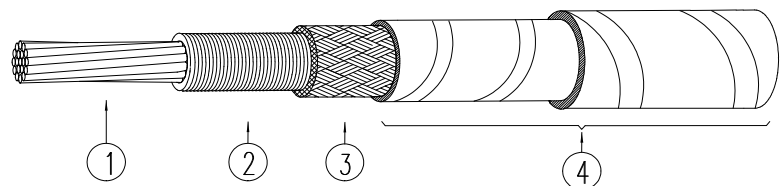
- ❑ Colors : White with Red Stripe.
- ❑ Marking : * W55/2/1-** F0241
* = specification revision letter
** = AWG

Application

- ❑ Heavy-duty applications in Aero-engines and High Temperature Areas.

Specification

- ❑ BMS 13-55.



DIMENSIONS AND WEIGHTS (Imperial Units)

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire					
		Stranding (Nbr of Strands / AWG Gauge of Strands)	Diameter (inch)		Nominal Area (Circular mils)	Resistance at 20°C (68°F) (Ohms/1000 ft)	Diameter (inch)		Weight (lb/1000ft)	
			Nom.	Max.		Max.	Min..	Max.	Min..	Max.
BMS 13-55 T02 C01 G022	22	19 / 34	0.031	0.033	754	24.63	0.082	0.090	6.03	6.76
BMS 13-55 T02 C01 G020	20	19 / 32	0.039	0.041	1214	15.27	0.088	0.097	7.61	8.55
BMS 13-55 T02 C01 G018	18	19 / 30	0.049	0.052	1900	9.77	0.096	0.105	10.00	11.21
BMS 13-55 T02 C01 G016	16	19 / 29	0.055	0.061	2426	7.66	0.103	0.112	12.07	13.67
BMS 13-55 T02 C01 G014	14	19 / 27	0.070	0.074	3838	4.97	0.117	0.128	17.33	19.46
BMS 13-55 T02 C01 G012	12	19 / 25	0.088	0.093	6097	3.20	0.149	0.164	27.65	30.56
BMS 13-55 T02 C01 G010	10	7 x 7 / 25	0.122	0.128	9898	1.93	0.183	0.200	42.74	47.24

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire					
		Stranding (Nbr of Strands X Diam. of Strands in mm.)	Diameter (mm)		Nominal Area (mm²)	Resistance at 20°C (68°F) (Ohms/Km.)	Diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.		Max.	Min..	Max.	Min..	Max.
BMS 13-55 T02 C01 G022	22	19 x 0.16	0.79	0.84	0.38	80.81	2.08	2.29	8.97	10.6
BMS 13-55 T02 C01 G020	20	19 x 0.20	0.99	1.04	0.62	50.10	2.24	2.46	11.32	12.72
BMS 13-55 T02 C01 G018	18	19 x 0.25	1.24	1.32	0.96	32.05	2.44	2.67	14.88	16.68
BMS 13-55 T02 C01 G016	16	19 x 0.287	1.40	1.55	1.23	25.13	2.62	2.84	17.96	20.34
BMS 13-55 T02 C01 G014	14	19 x 0.36	1.78	1.88	1.94	16.31	2.97	3.25	25.79	28.96
BMS 13-55 T02 C01 G012	12	19 x 0.45	2.24	2.36	3.09	10.50	3.78	4.17	41.14	45.47
BMS 13-55 T02 C01 G010	10	7 x 7 x 0.36	3.10	3.25	5.02	6.33	4.65	5.08	63.60	70.29



Type ASNE 0437 High Temperature Fire Resistant Cables

Filotex®

PRODUCT REFERENCES

ASNE 0437 DL ++

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor:
Nickel Clad High Strength
Copper Alloy for size 22.
Nickel Clad Copper for
other sizes.

INSULATION

- ② Special Fire Resistant
Composite Insulation.
- ③ PTFE Tape(s).

Applications

- ❑ Heavy Duty Applications in Aero-engines and High Temperature Areas

Main data

- ❑ Voltage rating : 600 Volts RMS.
- ❑ Operating temperature : -55°C to +260°C (Ambiant + Rise)
- ❑ Operating frequency : Up to 2000 Hz.
- ❑ Dimensions and weights : See table on this data sheet.
- ❑ Very Good Fire Resistance : According to MIL W 25038
- ❑ Good resistance to aircraft fluids.
- ❑ Good mechanical and electrical performances.

Identification

- ❑ Wire Standard Colour : White with red stripe
- ❑ Marking :

Colour : Green

Wording : ■ **DL++ FRF****

■ **DL++**

FRF**

++ = AWG Wire Size

FR = Country of origin (FR=France)

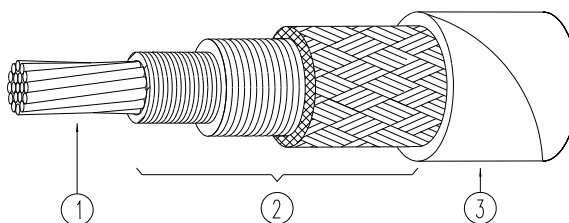
F = Manufacturer (F= Filotex®)

** = Year of manufacturing (ie. 03=2003)

Specifications

- ❑ ASNE 0437

ASNE 0437 DL



DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Conductor			Finished Wire				
		Stranding (Nbr x Diam. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (Ohms/Km)	Diameter		Weight	
			Nom. (mm)	Maxi. (mm)		Min. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ASNE 0437 DL 22	22	19 x 0.160	0.78	0.84	84.0	1.93	2.11	8.33	9.7
ASNE 0437 DL 20	20	19 x 0.204	0.98	1.04	47.8	2.13	2.36	11.38	13.4
ASNE 0437 DL 18	18	19 x 0.254	1.22	1.32	30.0	2.38	2.61	15.08	17.1
ASNE 0437 DL 16	16	19 x 0.287	1.40	1.55	22.5	2.51	2.97	18.22	21.6



Filotex®

ECS0741 DW Fireproof Cable Single UV Laser - light weight

Applications

- Use in the on-board electrical systems of aircraft.

PRODUCT REFERENCES

ECS 0741A xxx
ECS 0742A xxx
ECS 0742B xxx
ECS 0742C xxx

CONSTRUCTION

Conductor

- ① Stranded conductor :
Nickel clad copper alloy
for AWG 24 and 22.
Nickel clad copper for other
AWG.

Insulation

- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape, UV laser markable

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts rms
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance : > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification

- Color : White with helical red stripe

- Marking

Wording : EN DW ++ FRF** for single core

With : DW = Short designation

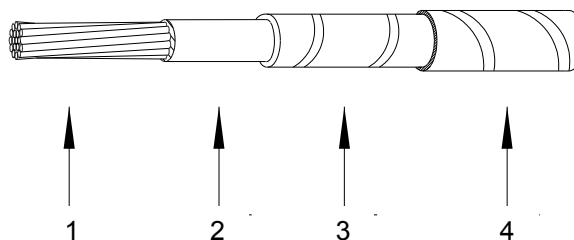
++ = AWG Wire Size

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of Manufacturing (ie. 07 = 2007)

Specification : ECS 0741



DIMENSIONS AND WEIGHTS (Metric Units)

REFERENCE	Size	Gauge	Conductor		Finished Cable			
	Code	AWG	Stranding (Nbr x Dia. of strands)	Diameter	DC Resistance at 20°C	Diameter		Weight
	AECMA		mm	mm Max.	Ohms/Km Max.	mm Min.	mm Max.	g/m Max.
ECS 0741A 004	004	22	19 x 0.15	0.80	80.9	1.55	1.80	6.3
ECS 0741A 006	006	20	19 x 0.20	1.04	44.3	1.80	1.97	9.0
ECS 0741A 010	010	18	19 x 0.25	1.29	27.9	2.04	2.23	12.7
ECS 0741A 012	012	16	19 x 0.30	1.53	18.8	2.28	2.50	17.0
ECS 0741A 020	020	14	37 x 0.25	1.82	13.9	2.53	2.75	22.0



Filotex®

ECS0742 GPA – GPB - GPC Fireproof Cable

Single and Multi-cores Screened and Jacketed

Applications

- Use in the on-board electrical systems of aircraft.

PRODUCT REFERENCES

ECS 0742A xxx
ECS 0742B xxx
ECS 0742C xxx
ECS 0741 xxx

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel clad copper alloy
for AWG 22.
Nickel clad copper for other
AWG.

Insulation

- ② Fireproof insulation
- ③ Polyimide Tape

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ UV PTFE Tape(s)

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts rms
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance : > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification

- Core identification

Colours: Single core : White with a helical red stripe

Two cores : White with a helical red / blue stripe

Three cores : White with a helical red / blue / yellow stripe

Marking Wording : DW A ++ FRF**

- Jacket identification colour: White with narrow red stripe

Marking Wording : £££ ++ FRF**

With : £££ = (single core : GPA, two cores : GPB, three cores : GPC)

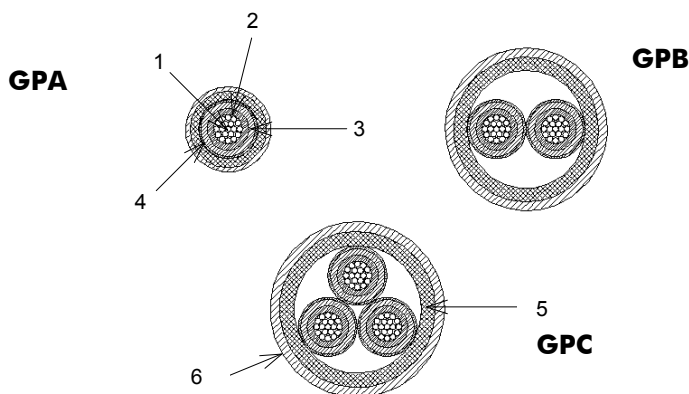
++ = AWG Wire Size

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of Manufacturing (ie. 07 = 2007)

Specification : ECS 0742



DIMENSIONS and WEIGHTS

REFERENCE	Size Code	AWG	Finished Cable				
			Nbr of cores	Nom. Diameter of shield strands (mm)	DC Resistance at 20°C (Ohms/Km) Max.	Diameter (mm) Max.	Weight (g/m) Max.
ECS 0742A 004	004	22	1	0.10	80.9	2.75	15.96
ECS 0742A 006	006	20	1	0.10	44.3	2.93	19.50
ECS 0742A 010	010	18	1	0.12	27.9	3.26	25.95
ECS 0742A 012	012	16	1	0.12	18.8	3.50	31.67
ECS 0742A 020	020	14	1	0.12	13.9	3.75	37.59
ECS 0742B 004	004	22	2	0.12	82.5	4.40	29.47
ECS 0742B 006	006	20	2	0.12	45.2	4.80	36.50
ECS 0742B 010	010	18	2	0.12	28.5	5.30	46.20
ECS 0742B 012	012	16	2	0.12	19.2	5.80	56.80
ECS 0742B 020	020	14	2	0.12	14.2	6.30	69.00
ECS 0742C 004	004	22	3	0.12	82.5	4.70	38.65
ECS 0742C 006	006	20	3	0.12	45.2	5.10	48.80
ECS 0742C 010	010	18	3	0.12	28.5	5.60	62.70
ECS 0742C 012	012	16	3	0.12	19.2	6.20	78.00
ECS 0742C 020	020	14	3	0.15	14.2	6.80	100.70



Filotex®

EN 2346-005 DW-DWB-DWC

Fireproof Cable

Single and Multicore assembly light weight

Applications

- Use in the on-board electrical systems of aircraft.

PRODUCT REFERENCES

EN 2346-005A xxx

EN 2346-005B xxx

EN 2346-005C xxx

EN 4608-004A xxx

EN 4608-004B xxx

EN 4608-004C xxx

CONSTRUCTION

Conductor

- ① Stranded conductor :
Nickel clad copper alloy
for AWG 24 and 22.
Nickel clad copper for other
AWG.

Insulation

- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape, UV laser
markable (for single core)

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts rms
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance : > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification

- Core identification

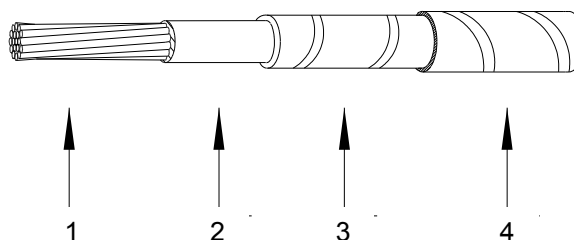
Colour : One core : White with a helical red stripe
Two cores : White with a helical red / blue stripe
Three cores : White with a helical red /
blue / yellow stripe

- Marking

Wording : EN DW ++ FRF** for single core
EN DW A ++ FRF** for multicore core

With : DW = Short designation
++ = AWG Wire Size
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of Manufacturing (ie. 03 = 2003)

Specification : EN2346-005 (pending)



DIMENSIONS and WEIGHTS

REFERENCE	No of core	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
				DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
					Min.	Max.	
EN 2346-005A 002	1	002	24	131.0	1.20	1.65	5.0
EN 2346-005A 004	1	004	22	80.9	1.55	1.80	6.3
EN 2346-005A 006	1	006	20	44.3	1.80	1.97	9.0
EN 2346-005A 010	1	010	18	27.9	2.04	2.23	12.7
EN 2346-005A 012	1	012	16	18.8	2.28	2.50	17.0
EN 2346-005A 020	1	020	14	13.9	2.53	2.75	22.0
EN 2346-005B 004	2	004	22	82.5	-	3.60	12.98
EN 2346-005B 006	2	006	20	45.2	-	3.94	18.54
EN 2346-005B 010	2	010	18	28.5	-	4.46	26.16
EN 2346-005B 012	2	012	16	19.2	-	5.00	35.02
EN 2346-005B 020	2	020	14	14.2	-	5.80	45.32
EN 2346-005C 004	3	004	22	82.5	-	3.87	19.47
EN 2346-005C 006	3	006	20	45.2	-	4.23	27.81
EN 2346-005C 010	3	010	18	28.5	-	4.79	39.24
EN 2346-005C 012	3	012	16	19.2	-	5.37	52.53
EN 2346-005C 020	3	020	14	14.2	-	5.91	67.98



Filotex®

Applications

- Use in the onboard electrical systems of aircraft.

PRODUCT REFERENCES

EN 4608-004A xxx

EN 4608-004B xxx

EN 4608-004C xxx

EN 2346-005

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel clad copper alloy
for AWG 22.
Nickel clad copper for other
AWG.

Insulation

- ② Fireproof insulation

- ③ Polyimide Tape

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ UV PTFE Tape(s)

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance : > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification

- Core identification

Colours: Single core : White with a helical red stripe

Two cores : White with a helical red / blue stripe

Three cores : White with a helical red / blue / yellow stripe

Marking Wording : EN DW A ++ FRF**

- Jacket identification colour: White with narrow red stripe

Marking Wording : EN £££ ++ FRF**

With : £££ = (single core : GPA, two cores : GPB, three cores : GPC)

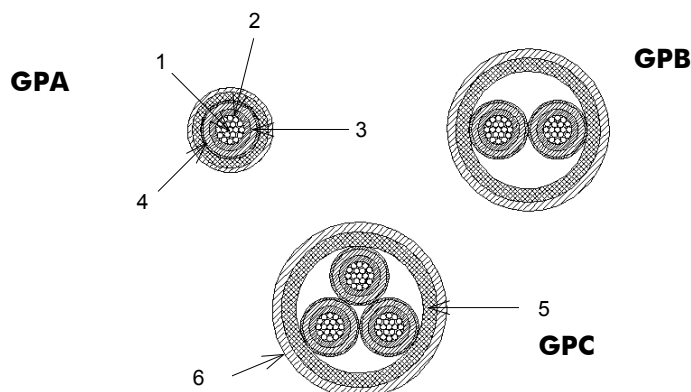
++ = AWG Wire Size

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of Manufacturing (ie. 03 = 2003)

Specification : EN 4608-004 (pending)



DIMENSIONS and WEIGHTS

REFERENCE	Size Code	AWG	Finished Cable				
			Nbr of cores	Nom. Diameter of shield strands (mm)	DC Resistance at 20°C (Ohms/Km) Max.	Diameter (mm) Max.	Weight (g/m) Max.
EN 4608-004A 004	004	22	1	0.10	80.9	2.75	15.96
EN 4608-004A 006	006	20	1	0.10	44.3	2.93	19.50
EN 4608-004A 010	010	18	1	0.12	27.9	3.26	25.95
EN 4608-004A 012	012	16	1	0.12	18.8	3.50	31.67
EN 4608-004A 020	020	14	1	0.12	13.9	3.75	37.59
EN 4608-004B 004	004	22	2	0.12	82.5	4.40	29.47
EN 4608-004B 006	006	20	2	0.12	45.2	4.80	36.50
EN 4608-004B 010	010	18	2	0.12	28.5	5.30	46.20
EN 4608-004B 012	012	16	2	0.12	19.2	5.80	56.80
EN 4608-004B 020	020	14	2	0.12	14.2	6.30	69.00
EN 4608-004C 004	004	22	3	0.12	82.5	4.70	38.65
EN 4608-004C 006	006	20	3	0.12	45.2	5.10	48.80
EN 4608-004C 010	010	18	3	0.12	28.5	5.60	62.70
EN 4608-004C 012	012	16	3	0.12	19.2	6.20	78.00
EN 4608-004C 020	020	14	3	0.15	14.2	6.80	100.70



Filotex®

ESW 1000-010-XXX Large Section High Temperature Cable

PRODUCT REFERENCES

ESW 1000-010-xxx

CONSTRUCTION

CONDUCTOR

- ① A Stranded Conductor
Made of Nickel Plated
Copper

INSULATION

- ② POLYIMIDE Tape
- ③ PTFE Tapes
- ④ PTFE Coated Fiberglass
Tape
- ⑤ PTFE Tapes

Applications

- ☐ Aero engine services

Main data

- ☐ Operating temperature : -65°C to +260°C.(Ambiant + Rise)
- ☐ Voltage rating : 600 Volts RMS.
- ☐ Dimensions and weights : See table on this data sheet
- ☐ Very Good Resistance to Aircraft Fluids.
- ☐ Mould and Fungus Resistant

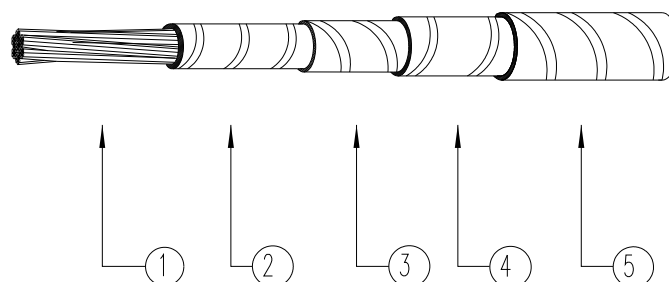
Identification

- ☐ Colour of cable : White
- ☐ Marking
Colour : Green
Wording : ESW1000-010-xxx-FX-FF-**
xxx = Size Code
** = Year of manufacturing

Specifications

- ☐ ESW1000-010

ESW 1000-010-xxx



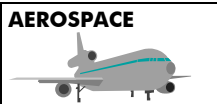
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DIMENSIONS and WEIGHTS

REFERENCE	AWG	Conductor				Finished Cable		
		Stranding m x n x Diam. (mm)	Diameter (mm) Max.	Number of Strands Max	Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Maximum Weight (Kg/Km)
						ESW1000-010-090	8	127 x 0.30
ESW1000-010-140	6	27 x 7 x 0.30	5.6	189	1.58	*	7.30	160
ESW1000-010-220	4	37 x 12 x 0.25	7.3	444	0.97	9.24	9.30	245
ESW1000-010-340	2	37 x 19 x 0.25	8.8	703	0.61	10.93	11.30	420
ESW1000-010-420	1	37 x 23 x 0.25	10.0	851	0.51	*	12.40	500
ESW1000-010-530	0	37 x 29 x 0.25	11.3	1073	0.40	12.55	13.15	630
ESW1000-010-680	00	37 x 37 x 0.25	12.5	1369	0.32	14.20	14.45	800
ESW1000-010-850	000	48 x 36 x 0.25	14.4	1728	0.25	15.58	16.05	1010
ESW1000-010-107	0000	61 x 36 x 0.25	15.9	2196	0.20	17.22	17.55	1270

* TBD



ESW 1100-010-XXX

Filter Effect Cable

High Temperature Wire

Filotex®

PRODUCT REFERENCES

ESW 1100-010-xxx

ESW 1101

ESW 1102

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel plated high strength
copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

- ② Polyimide Tape
- ③ Filter Layer
- ④ PTFE Tape

Applications

- ❑ Aero engine services.

Electrical Characteristics

- ❑ Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage Rating : 200 Volts rms
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Attenuation at 20°C and 260°C :

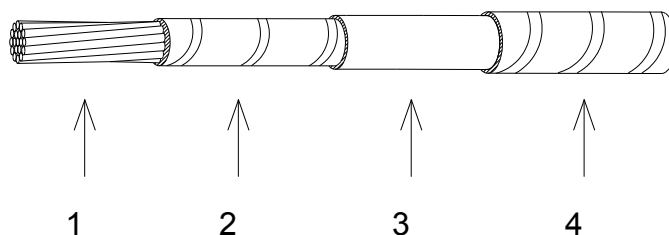
Passband : 10 MHz	0.3 dB/m (Max.)
Stopband : 18 GHz	100 dB/m (Min.)
- ❑ Very good resistance to Aircraft Fluids.

Identification

- ❑ Colour of wire : Dark Blue
- ❑ Marking
Colour : White
Wording : ESW1100-010-xxx-FX-FF-**
xxx = Size Code
** = Year of manufacturing.

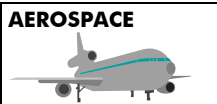
Specification : ESW 1100-010-XXX

FILOTEX® ESW 1100-010-xxx



DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Conductor				Finished Cable		
			Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Min.	Max.		Min.	Max.	
ESW1100-010-004	22	004	19 x 0.15	0.72	0.80	59.7	1.0	1.5	6.00
ESW1100-010-006	20	006	19 x 0.20	0.94	1.04	35.2	1.3	1.8	9.00



ESW 1101-+++-XXX

Filter Effect Cable

Unscreened and Unjacketed multicores

Filotex®

PRODUCT REFERENCES

ESW 1101-021-xxx

ESW 1101-031-xxx

ESW 1101-041-xxx

ESW 1100

ESW 1102

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel plated high strength
copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

- ② Polyimide Tape
- ③ Filter Layer
- ④ PTFE Tape

ASSEMBLY

2, 3 or 4 cores

Applications

- ❑ Aero engine services.

Electrical Characteristics

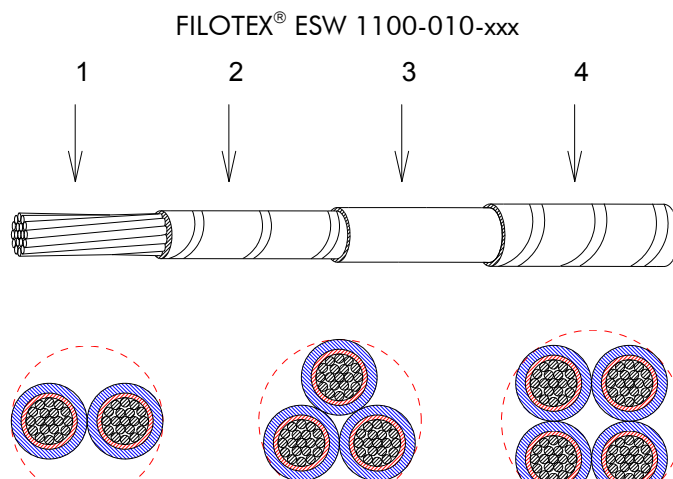
- ❑ Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage Rating : 200 Volts rms
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Attenuation at 20°C and 260°C :

Passband : 10 MHz	0.3 dB/m (Max.)
Stopband : 18 GHz	100 dB/m (Min.)
- ❑ Very good resistance to Aircraft Fluids.

Identification

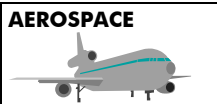
- ❑ Core identification Colours : Dark Blue
- ❑ Marking
Wording : ESW1100-010-xxx-FX-FF-**
xxx = Size Code ** = Year of manufacturing

Specification : ESW 1101-+++-XXX



DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
					Max.	Min.	Max.	Max.
ESW1101-021-004	22	004	2	Dark Blue	61.5	2.0	3.0	12.5
ESW1101-021-006	20	006	2		36.3	2.6	3.6	19.0
ESW1101-031-004	22	004	3	Dark Blue	61.5	2.2	3.3	19.6
ESW1101-031-006	20	006	3		36.3	2.8	3.9	28.8
ESW1101-041-004	22	004	4	Dark Blue	61.5	2.72	4.10	27.9
ESW1101-041-006	20	006	4		36.3	3.27	4.72	39.0



ESW 1102-+++ -XXX

Filter Effect Cable

Single and Multi-cores Screened and Jacketed

Filotex®

PRODUCT REFERENCES

ESW 1102-012-xxx

ESW 1102-022-xxx

ESW 1102-032-xxx

ESW 1102-042-xxx

ESW 1100

ESW 1101

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel plated high strength
copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

Insulation

- ② Polyimide Tape

- ③ Filter Layer

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ Polyimide Tape
- ⑦ PTFE Tape

Applications

- ❑ Aero engine services.

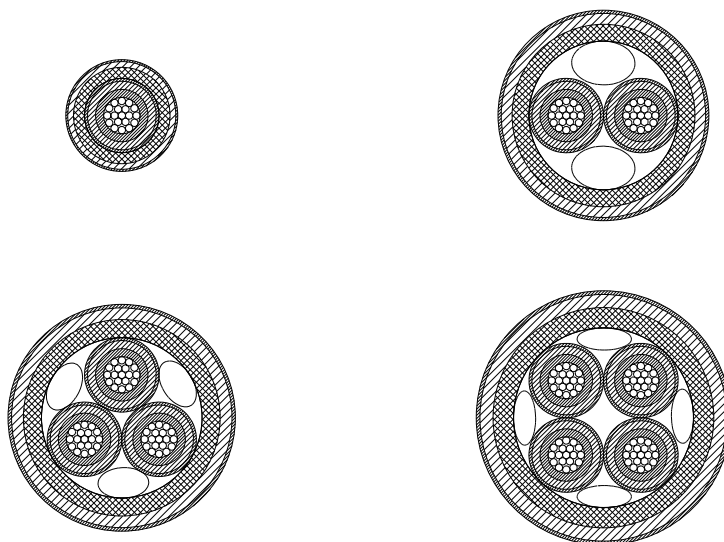
Electrical Characteristics

- ❑ Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage Rating : 200 Volts rms
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Attenuation at 20°C and 260°C :
Passband : 10 MHz 0.3 dB/m (Max.)
Stopband : 18 GHz 100 dB/m (Min.)
- ❑ Very good resistance to Aircraft Fluids.

Identification

- ❑ Core identification Colours: Single core : White
Two cores : Red – Blue
Three cores : Red – Blue – Yellow
Four cores : Red – Blue – Yellow – Green
Jacket identification colour: Dark Blue
- ❑ Marking Wording : ESW1102-+++ -xxx-FX-FF-**
+++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1102-+++ -XXX

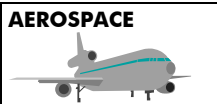


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DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Finished Cable					
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
					Max.	Min.	Max.	Max.
ESW1102-012-004	22	004	1	White	59.7	2.0	2.80	19.8
ESW1102-012-006	20	006	1		35.2	2.4	3.35	28.3
ESW1102-022-004	22	004	2	1 Red 1 Blue	61.5	2.85	3.8	28
ESW1102-022-006	20	006	2		36.3	3.35	4.3	38
ESW1102-032-004	22	004	3	1 Red 1 Blue 1 Yellow	61.5	3.16	4.1	35.5
ESW1102-032-006	20	006	3		36.3	3.70	4.5	48.0
ESW1102-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	61.5	4.06	5.74	59.1
ESW1102-042-006	20	006	4		36.3	4.89	6.37	74.1



Filotex®

ESW 1700-010-XXX Thermocouple, Nickel Chromium Filter Effect Cable High Temperature Wire

PRODUCT REFERENCES

ESW 1700-010-xxx

ESW 1701-010

ESW 1702-022

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel – chromium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

- ② Polyimide Tape
③ Filter Layer
④ PTFE Tape

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Cr single core for ESW 1702 thermocouple cable.
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :

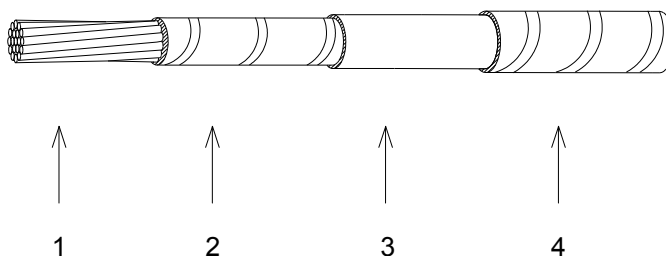
Passband : 10 MHz	0.3 dB/m (Max.)
Stopband : 18 GHz	100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification

- Colour of wire : White
- Marking
Colour : Green
Wording : ESW1700-010-xxx-FX-FF-**
xxx = Size Code
** = Year of manufacturing.

Specification : ESW 1700-010-XXX

FILOTEX® ESW 1700-010-xxx

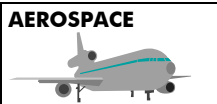


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DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Conductor					Finished Cable		
			Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
				Min.	Max.	Min.	Max.	Min.	Max.	Max.
ESW1700-010-004	22	004	19 x 0.15	0.72	0.80	1956	2364	1.0	1.5	6.00
ESW1700-010-006	20	006	19 x 0.20	0.94	1.04	1100	1330	1.3	1.8	8.50



Filotex®

ESW 1701-010-XXX

Thermocouple, Nickel Aluminium

Filter Effect Cable

High Temperature Wire

PRODUCT REFERENCES

ESW 1701-010-xxx

ESW 1700-010

ESW 1702-022

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel – aluminium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

- ② Polyimide Tape
- ③ Filter Layer
- ④ PTFE Tape

Applications

- ❑ Aero engine services.

Electrical Characteristics

- ❑ Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- ❑ Voltage Rating : 200 Volts rms
- ❑ Ni-Al single core for ESW 1702 thermocouple cable.
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Attenuation at 20°C and 260°C :

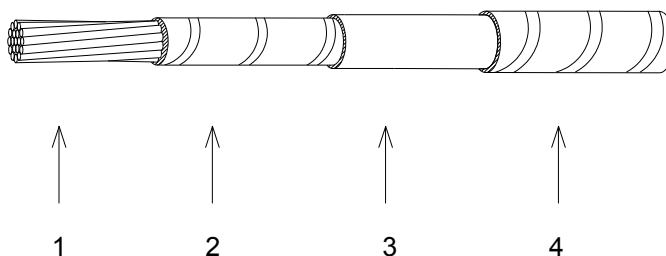
Passband : 10 MHz	0.3 dB/m (Max.)
Stopband : 18 GHz	100 dB/m (Min.)
- ❑ Very good resistance to Aircraft Fluids.

Identification

- ❑ Colour of wire : Green
- ❑ Marking
Colour : White
Wording : ESW1701-010-xxx-FX-FF-**
xxx = Size Code
** = Year of manufacturing.

Specification : ESW 1701-010-XXX

FILOTEX® ESW 1701-010-xxx



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DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Conductor					Finished Cable		
			Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
				Min.	Max.	Min.	Max.	Min.	Max.	Max.
ESW1701-010-004	22	004	19 x 0.15	0.72	0.80	771	932	1.0	1.5	6.00
ESW1701-010-006	20	006	19 x 0.20	0.94	1.04	434	524	1.3	1.8	8.50



Filotex®

ESW 1702-022-XXX Ni-Cr/Ni-Al Thermocouple extension Filter Effect Cable Twin core Screened and Jacketed

PRODUCT REFERENCES

ESW 1702-022-xxx

ESW 1700-010-xxx

ESW 1701-010-xxx

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel-Chromium or Nickel-Aluminium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

Insulation

- ② Polyimide Tape

- ③ Filter Layer

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ Polyimide Tape
- ⑦ PTFE Tape

Applications

- Aero engine services.

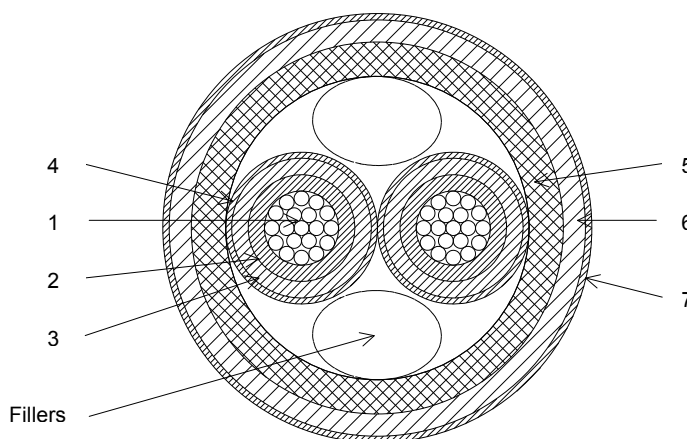
Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Cr/Ni-Al Thermocouple extension cable
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
Passband : 10 MHz 0.3 dB/m (Max.)
Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification

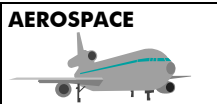
- Core identification Colours: White – Green
Jacket identification Colour: Green
- Marking Colour: White
Wording : ESW1702-022-xxx-FX-FF-**
xxx = Size Code
** = Year of manufacturing

Specification : ESW1702-022-XXX



DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Finished Cable				
			Nbr of cores	Colours of cores	Diameter (mm)		Weight (g/m)
					Min.	Max.	Max.
ESW1702-022-004	22	004	2	1 White	2.85	3.8	28
ESW1702-022-006	20	006	2	1 Green	3.35	4.3	38



Filotex®

ESW 1200-010-XXX ESW 1201-010-XXX Fire Resistant Cable Single core

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

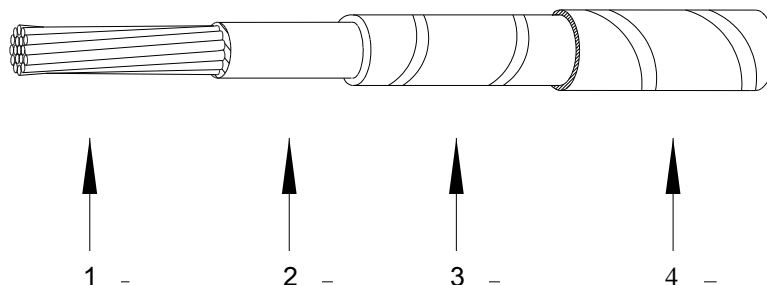
Identification

- Core identification :

Colour : White with a helical red stripe

- Marking Wording : ESW1200-010-xxx-FX-FF-** or
ESW1201-010-xxx-FX-FF-**
With : xxx = Size Code
** = Year of manufacturing

Specification : ESW1200 / 1201-010-XXX



PRODUCT REFERENCES

ESW 1200-010-xxx

ESW 1201-010-xxx

ESW 1202 / ESW 1203

-012-xxx

-022-xxx

-032-xxx

-042-xxx

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel clad copper alloy (ESW1200)
Nickel clad copper (ESW1201)

INSULATION

- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape

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DIMENSIONS and WEIGHTS

ESW 1200

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Min.	Max.	
ESW1200-010-004	004	22	95	1.45	1.85	8.4
ESW1200-010-006	006	20	51.1	1.60	2.00	10.5
ESW1200-010-010	010	18	32.7	1.90	2.32	14.4
ESW1200-010-012	012	16	25.6	2.10	2.57	18.7

ESW 1201

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Min.	Max.	
ESW1201-010-004	004	22	87.9	1.45	1.85	8.4
ESW1201-010-006	006	20	43.6	1.60	2.00	10.5
ESW1201-010-010	010	18	27.9	1.90	2.32	14.4
ESW1201-010-012	012	16	21.9	2.10	2.57	18.7



Filotex®

ESW 1202-+++ -XXX

ESW 1203-+++ -XXX

Fire Resistant Cable

Single and Multi-cores Screened and Jacketed

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1202 / ESW 1203

-012-xxx

-022-xxx

-032-xxx

-042-xxx

ESW 1200

ESW 1201

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :

Nickel clad copper alloy
(ESW1202)

Nickel clad copper (ESW1203)

004 : 19 x 0.15 mm

006 : 19 x 0.20 mm

010 : 19 x 0.25 mm

012 : 19 x 0.30 mm

Insulation

- ② Fire resistant insulation

- ③ Polyimide Tape

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ PTFE Tape(s)

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification Colours: Single core : White

Two cores : Red – Blue

Three cores : Red – Blue - Yellow

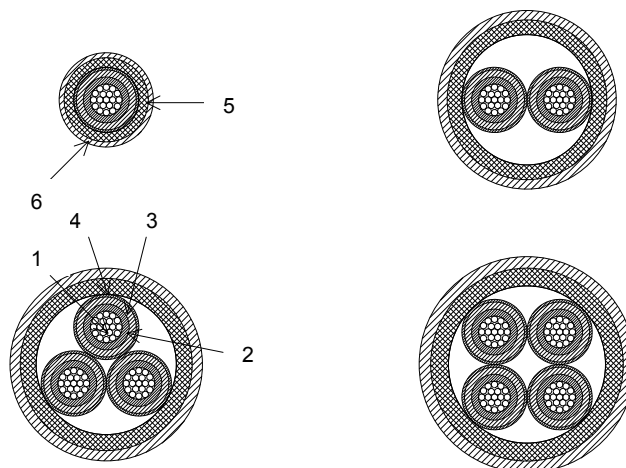
Four cores : Red – Blue – Yellow – Green

Jacket identification colour: White with narrow red stripe

- Marking Wording : ESW1202-+++ -xxx-FX-FF-** or
ESW1203-+++ -xxx-FX-FF-**

+++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1202 / ESW1203-+++ -XXX



DIMENSIONS and WEIGHTS

ESW 1202

REFERENCE	AWG	Size Code	Nbr of cores	Colours of cores	Finished Cable			
					DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
						Min.	Max.	
ESW1202-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1202-012-006	20	006	1		51.1	2.65	3.35	28.3
ESW1202-012-010	18	010	1		32.7	2.90	3.60	34.0
ESW1202-012-012	16	012	1		25.6	3.15	3.90	40.5
ESW1202-022-004	22	004	2	1 Red 1 Blue	96.9	3.89	5.35	43.5
ESW1202-022-006	20	006	2		52.1	4.21	5.64	50.6
ESW1202-022-010	18	010	2		33.4	4.70	6.00	60.3
ESW1202-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1202-032-004	22	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	55.7
ESW1202-032-006	20	006	3		52.1	4.40	5.97	67.0
ESW1202-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1202-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1202-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1202-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1202-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1202-042-012	16	012	4		26.1	6.29	7.50	115.0

ESW 1203

REFERENCE	AWG	Size Code	Nbr of cores	Colours of cores	Finished Cable			
					DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
						Min.	Max.	
ESW1203-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1203-012-006	20	006	1		43.6	2.65	3.35	28.3
ESW1203-012-010	18	010	1		27.9	2.90	3.60	34.0
ESW1203-012-012	16	012	1		21.9	3.15	3.90	40.5
ESW1203-022-004	22	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1203-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1203-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1203-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1203-032-004	22	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1203-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1203-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1203-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1203-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1203-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1203-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1203-042-012	16	012	4		22.34	6.29	7.50	115.0



Filotex®

ESW 1250-010-XXX ESW 1251-010-XXX Fireproof Cable Single core

Applications

- Use in essential services.

PRODUCT REFERENCES

ESW 1250-010-xxx

ESW 1251-010-xxx

ESW 1252 / ESW 1253

-012-xxx

-022-xxx

-032-xxx

-042-xxx

CONSTRUCTION

CONDUCTOR

- ① Stranded conductor :
Nickel clad copper alloy (ESW1250)
Nickel clad copper (ESW1251)

INSULATION

- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

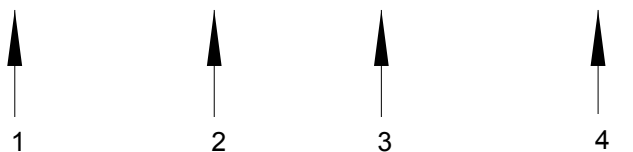
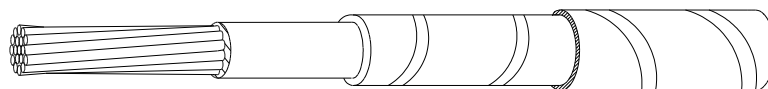
Identification

- Core identification :

Colour : White with a helical red stripe

- Marking Wording : ESW1250-010-xxx-FX-FF-** or
ESW1251-010-xxx-FX-FF-**
With : xxx = Size Code
** = Year of manufacturing

Specification : ESW1250 / ESW1251-010-XXX



DIMENSIONS and WEIGHTS

ESW 1250

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Min.	Max.	
ESW1250-010-004	004	22	95	1.45	1.85	10.4
ESW1250-010-006	006	20	51.1	1.60	2.00	13.0
ESW1250-010-010	010	18	32.7	1.90	2.32	17.0
ESW1250-010-012	012	16	25.6	2.10	2.57	22.0

ESW 1251

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Min.	Max.	
ESW1251-010-004	004	22	87.9	1.45	1.85	10.4
ESW1251-010-006	006	20	43.6	1.60	2.00	13.0
ESW1251-010-010	010	18	27.9	1.90	2.32	17.0
ESW1251-010-012	012	16	21.9	2.10	2.57	22.0



Filotex®

ESW 1252-+++ -XXX

ESW 1253-+++ -XXX

Fireproof Cable

Single and Multi-cores Screened and Jacketed

Applications

- Use in essential services.

PRODUCT REFERENCES

ESW 1252 / ESW 1253

-012-xxx

-022-xxx

-032-xxx

-042-xxx

ESW 1250

ESW 1251

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification Colours: Single core : White
Two cores : Red – Blue
Three cores : Red – Blue - Yellow
Four cores : Red – Blue – Yellow – Green

Jacket identification colour: White with narrow red stripe

- Marking Wording : ESW1252-+++ -xxx-FX-FF-** or
ESW1253-+++ -xxx-FX-FF-**

+++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1252 / ESW1253-+++ -XXX

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel clad copper alloy (ESW1252)
Nickel clad copper (ESW1253)
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm
010 : 19 x 0.25 mm
012 : 19 x 0.30 mm

Insulation

- ② Fireproof insulation

- ③ Polyimide Tape

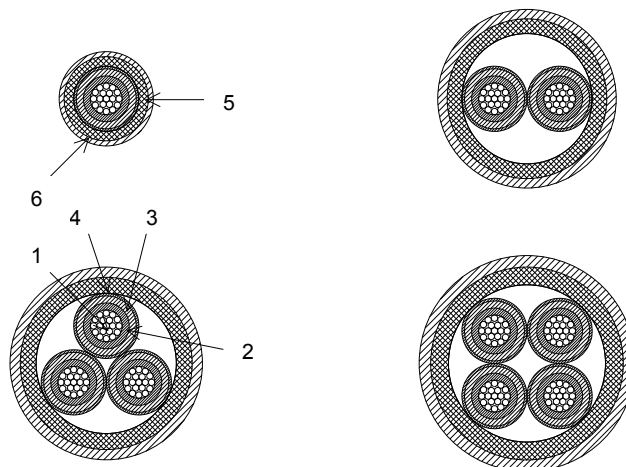
- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ PTFE Tape(s)



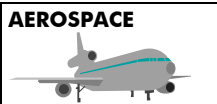
DIMENSIONS and WEIGHTS

ESW 1252

REFERENCE	AWG	Size Code	Nbr of cores	Colours of cores	Finished Cable			
					DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
						Max.	Min.	Max.
ESW1252-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1252-012-006	20	006	1		51.1	2.65	3.50	30.0
ESW1252-012-010	18	010	1		32.7	2.90	3.80	36.0
ESW1252-012-012	16	012	1		25.6	3.15	4.10	38.0
ESW1252-022-004	22	004	2	1 Red 1 Blue	96.9	3.89	5.35	40.0
ESW1252-022-006	20	006	2		52.1	4.21	5.64	48.0
ESW1252-022-010	18	010	2		33.4	4.70	6.00	59.0
ESW1252-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1252-032-004	22	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	52.0
ESW1252-032-006	20	006	3		52.1	4.40	5.97	62.0
ESW1252-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1252-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1252-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1252-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1252-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1252-042-012	16	012	4		26.1	6.29	7.50	115.0

ESW 1253

REFERENCE	AWG	Size Code	Nbr of cores	Colours of cores	Finished Cable			
					DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
						Max.	Min.	Max.
ESW1253-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1253-012-006	20	006	1		43.6	2.65	3.50	33.4
ESW1253-012-010	18	010	1		27.9	2.90	3.80	40.12
ESW1253-012-012	16	012	1		21.9	3.15	4.10	47.8
ESW1253-022-004	22	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1253-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1253-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1253-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1253-032-004	22	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1253-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1253-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1253-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1253-042-004	22	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1253-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1253-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1253-042-012	16	012	4		22.34	6.29	7.50	115.0



ESW 1254-010-002

Fireproof Cable

Single core

Filotex®

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1254-010-002

ESW 1254-022-002

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification :
Colour : White with a helical red stripe
- Marking Wording : ESW1254-010-002-FX-FF-**
 With : FX = Country of origin
 FF = Manufacturer's code
 ** = Year of manufacturing

CONSTRUCTION

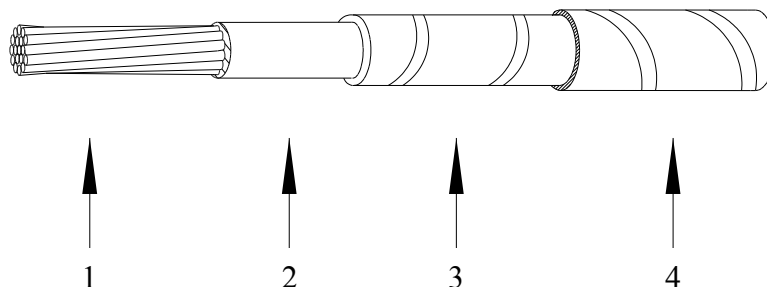
CONDUCTOR

- ① Stranded conductor :
Nickel clad copper alloy
002 : 19 x 0.12 mm

INSULATION

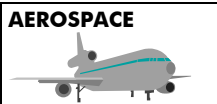
- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape

Specification : ESW1254-010-002



DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1254-010-002	002	24	131	1.20	1.65	9.50



Filotex®

ESW 1254-022-002

ESW 1254-032-002

**Fireproof Cable Two or Three-cores Twisted
Screened and Jacketed**

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1254-022-002

ESW 1254-010-002

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification Colours:

Two cores (022): Red – Blue

Three cores (032): Red – Blue - Yellow

Jacket identification colour: White with narrow red stripe

- Marking Wording : ESW1254-022-002-FX-FF-**

FX = Country of origin

FF = Manufacturer's code

** = Year of manufacturing

Specification : ESW1254-022-002

ESW1254-032-002

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel clad copper alloy
002 : 19 x 0.12 mm

Insulation

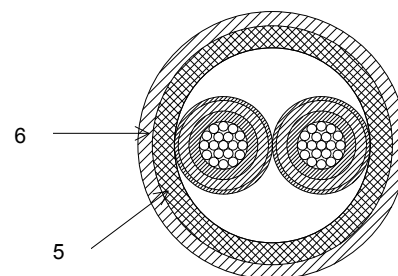
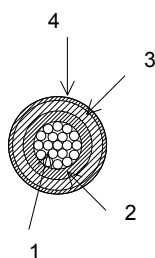
- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ PTFE Tape(s)



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Fax : + 33 1 69 42 05 70

 **nexans**

DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Finished Cable						
			Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Nom. Weight (g/m)	Max. Weight ESW Spec. (g/m)
						Max.	Min. Max.		
ESW1254-022-002	24	002	2	1 Red 1 Blue	135		2.95 4.45	25	38
ESW1254-032-002	24	002	3	1 Red 1 Blue 1 Yellow	135		3.50 4.75	31	37

Filotex®

ESW 1600-010-XXX
Thermocouple Nickel Chromium
ESW 1601-010-XXX
Thermocouple Nickel Aluminium,
Fire Resistant Cable

- ❑ Aero engine services.

ESW 1603-025-xxx

- ❑ Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- ❑ Dimensions and weights : see table on this data sheet.
- ❑ Very good fire resistance .
- ❑ Very good resistance to Aircraft Fluids.

- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape

- Core identification :

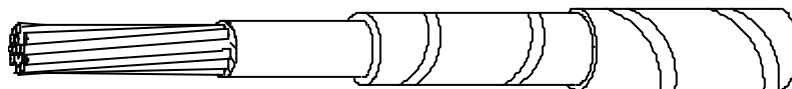
Green (ESW 1601)

ESW1601-010-xxx-FX-FF-**

With : xxx = Size Code

** = Year of manufacturing

Specification : ESW1601-010-XXX



1

2

3

4

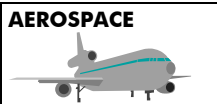
DIMENSIONS and WEIGHTS

NICKEL CHROMIUM

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1600-010-006	006	20	1100	1300	1.60	2.00	10.5
ESW1600-010-010	010	18	705	851	1.92	2.32	14.4
ESW1600-010-012	012	16	489	591	2.17	2.57	18.7
ESW1600-010-050	050	10	133	162	3.65	4.05	56.5

NICKEL ALUMINIUM

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1601-010-006	006	20	434	524	1.60	2.00	10.5
ESW1601-010-010	010	18	278	336	1.92	2.32	14.4
ESW1601-010-012	012	16	193	234	2.17	2.57	18.7
ESW1601-010-050	050	10	52	64	3.65	4.05	56.5



ESW 1602-022-XXX

Fire Resistant Cable

Thermocouple Nickel Chromium/Nickel Aluminium

Filotex®

Applications

- ☐ Aero engine services.

PRODUCT REFERENCES

ESW 1602-022-xxx

ESW 1600

ESW 1601

Electrical Characteristics

- ☐ Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- ☐ Voltage Rating : 600 Volts rms
- ☐ Dimensions and weights : see table on this data sheet.
- ☐ Very good fire resistance .
- ☐ Very good resistance to Aircraft Fluids.

Identification

- ☐ Core identification Colours:

Nickel Chromium : white

Nickel Aluminium : green

Jacket identification colour: Green with red stripe

- ☐ Marking : ESW1254-022-002-FX-FF-**

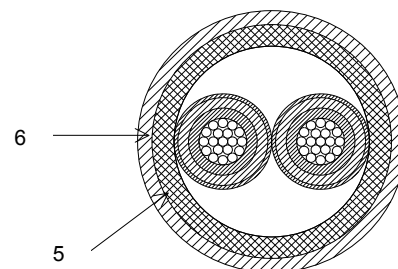
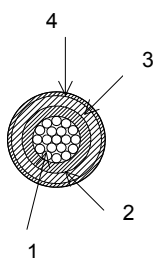
xxx = size code

FX = Country of origin

FF = Manufacturer's code

** = Year of manufacturing

Specification : ESW1602-022-xxx



CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
Nickel Chromium/
Nickel Aluminium
006 : 19 x 0.20 mm
010 : 19 x 0.25 mm
012 : 19 x 0.30 mm
050 : 61 x 0.32 mm

Insulation

- ② Fire resistant insulation

- ③ Polyimide Tape

- ④ PTFE Tape

SCREEN

- ⑤ Nickel plated copper braid

JACKET

- ⑥ PTFE Tape(s)

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DIMENSIONS and WEIGHTS

REFERENCE	AWG	Size Code	Finished Cable						
			DC Resistance at 20°C (Ohms/Km)				Diameter (mm)		Weight (g/m)
			Nickel Chromium		Nickel Aluminium		Min.	Max.	Max.
			Min.	Max.	Min.	Max.			
ESW1602-022-006	20	006	1122	1357	443	534	4.40	5.64	50.6
ESW1602-022-010	18	010	719	868	283	343	4.70	6.0	60.3
ESW1602-022-012	16	012	499	603	197	239	5.20	6.50	72.8
ESW1602-022-050	10	050	136	165	53	65	7.50	9.50	148.8



Type 3000 A Fire resistant cables

Filotex®

PRODUCT REFERENCES

3000 A

CONSTRUCTION

① CONDUCTOR

Stranded nickel clad copper

② Feltlike winding of siliceous fibres

③ INSULATION

PTFE (wrapped)

④ BRAID

Glass fiber braid coated with a PTFE varnish
Colour coding: in natural colour + red stripe (printed identification is possible on the braid)

To AIR 4527, B.N.Aé

These cables are approved by the Air Ministry under letters :

N°31573 STA/EQ/E2 (10-02-65)

Registered at the B.N.Aé : N° 6418 400 C

Operating voltage: 600 volts RMS

Operating temperature: - 50°C to + 280°C (ambient + rise)

Characteristics:

- ❑ These cables are used at high ambient temperatures, up to 300°C at peak,
- ❑ They withstand a 1090°C flame applied for 5 minutes under a 250 V d.c. voltage,
- ❑ Non-flammable,
- ❑ They withstand most solvents.

Technical requirements and control conditions:

- ❑ Air4527 Specification (high temperature cables and fire resistant cables),
- ❑ B.N.Aé NF.L 52-127 Specification of July 1978, R.C.Aéro 140-55 A of March 1962.

Interchangeability:

- ❑ MIL-W-25038 D Specification of January 1972.



MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter + 0.1	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional area	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
3000A	0.38	22	12 x 0.20	0.85	10.5	2.5	9.5	71.20	7
3000A	0.60	20	19 x 0.20	1.03	16.5	2.8	12.5	45.00	11
3000A	0.93	18	19 x 0.25	1.28	24.0	3.1	17.5	28.80	16
3000A	1.34	16	19 x 0.30	1.53	> 30.0	3.5	21.5	20.00	22
3000A	1.91	14	27 x 0.30	1.87	> 30.0	4.0	31.5	14.40	32
3000A	3.18	12	45 x 0.30	2.40	> 30.0	4.5	47.5	8.45	41
3000A	5.15	10	73 x 0.30	3.10	> 30.0	5.3	71.0	5.20	55
3000A	8.98	8	127 x 0.30	4.20	> 30.0	6.7	114.0	3.00	75
3000A	13.40	6	27 x 7 x 0.30	5.60	> 30.0	8.1	172.0	2.07	100
3000A	21.80	4	37 x 12 x 0.25	7.30	> 30.0	9.6	262.0	1.27	135
3000A	34.50	2	37 x 19 x 0.25	8.80	> 30.0	11.5	414.0	0.80	181
3000A	41.80	1	37 x 23 x 0.25	9.80	> 30.0	12.8	480.0	0.66	211
3000A	52.70	0	37 x 29 x 0.25	10.80	> 30.0	14.2	618.0	0.52	245
3000A	67.20	00	37 x 37 x 0.25	12.40	> 30.0	15.7	781.0	0.41	283

The currents shown are valid for single wires in air. If the ambient temperature is lower than 250°C the current ratings can be above those quoted in Air 7822 Specification, provided that the conductor temperature does not exceed 300°C. For cables in bundle please refer to Air 7822 Specification.



Filotex®

BMS 13-67 310 °C Rating Very High Temperature Fire Resistant Shielded and Jacketed Cables

PRODUCT REFERENCES

BMS13-67T02C0*G0**

CONSTRUCTION

CORE(S)

- ① Conductor:
Nickel Clad High Strength
Copper Alloy Conductor
US Sizes
Insulation:
.Very High Temperature and
Fire Resistant insulation
.High Temperature PTFE
Tapes
. PTFE Coated Fiber Glass
Braid

SHIELD

- ② Nickel Clad Copper Braid

JACKET

- ③ High Temperature PTFE Tapes
- ④ PTFE Coated Fiber Glass Braid

Applications

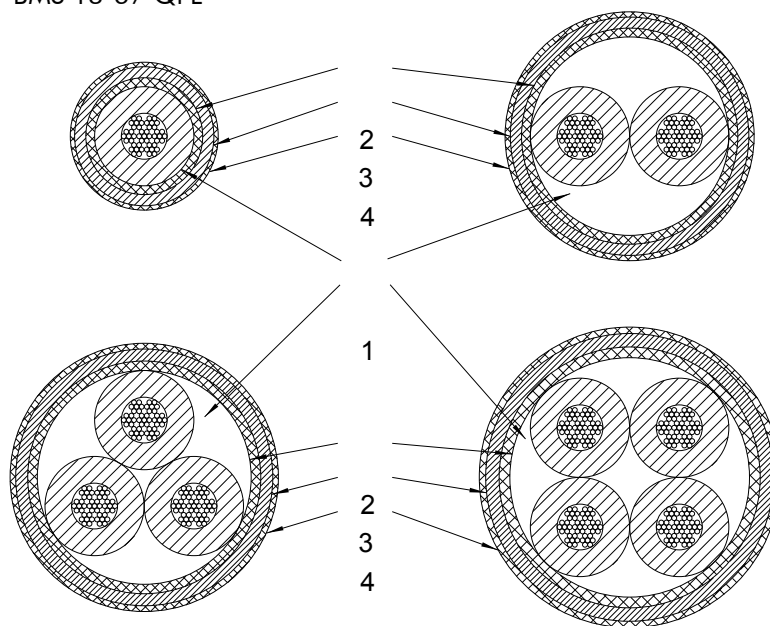
- ❑ Aero Engines and Very High Temperature Applications
- ❑ Fire Resistant Cable

Main data

- ❑ Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- ❑ Operating Temperature : 20,000 hours at +313°C (595°F)
: or 10,000 hours at +321°C (610°F).
- ❑ Dimensions and weights : See Tables on This Data Sheet.
- ❑ Fire Resistance : Insulation resistance 10,000 Ohms
Minimum.
- ❑ Bend Radius : Minimum 5 times cable O.D.

Specification

- ❑ BMS 13-67 QPL



DIMENSIONS AND WEIGHTS (METRIC UNITS)

BASIC CORE

FILOTEX® PART NUMBER	US AWG	Conductors			Finished Wire				
		Strands (Nbr x mm)	O.D. (mm)		Maximum DC Resistance (Ohms/Km)		Diameter (mm)		Weight
			Nom.	Max .	at 23°C (73°F)	at 370°C (698°F)	Nom.	Max.	Nom. (g/m)
BMS13-67T0*C01G022	22	37 x 0.115	0.78	0.84	80.8	192.59	2.49	2.61	11.33
BMS13-67T0*C01G020	20	7 x 7 x 0.115	0.99	1.04	50.1	118.37	2.65	2.78	12.72
BMS13-67T0*C01G018	18	7 x 7 x 0.150	1.30	1.32	32.0	74.28	2.91	3.03	16.70
BMS13-67T0*C01G016	16	7 x 7 x 0.175	1.51	1.55	25.1	55.77	3.10	3.22	20.11
BMS13-67T0*C01G014	14	7 x 7 x 0.210	1.81	1.88	16.3	36.09	3.38	3.52	25.52
BMS13-67T0*C01G012	12	7 x 7 x 0.270	2.33	2.36	10.5	23.23	3.92	4.04	37.21
BMS13-67T0*C01G010	10	7 x 7 x 0.360	3.11	3.25	6.34	14.01	4.78	4.92	59.90

FINISHED CABLE

FILOTEX® PART NUMBER	US AWG	Nbr of Cores	Shield		Finished Cable						
			Strands O.D. (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/Km) Max.	Diameter (mm)			Weight (g/m)		
						Min.	Nom.	Max.	Min.	Nom.	Max.
BMS13-67T02C01G022	22	1	0.13	3.01	80.8	3.53	3.71	3.89	27.83	29.60	31.37
BMS13-67T02C01G020	20	1	0.13	3.17	50.1	3.66	3.87	4.06	30.03	31.95	33.87
BMS13-67T02C01G018	18	1	0.13	3.43	32.0	4.04	4.18	4.34	35.77	38.06	40.34
BMS13-67T02C01G016	16	1	0.13	3.62	25.1	4.19	4.36	4.55	39.51	42.02	44.55
BMS13-67T02C01G014	14	1	0.13	3.90	16.3	4.47	4.68	4.88	47.62	50.12	52.63
BMS13-67T02C01G012	12	1	0.13	4.44	10.5	5.03	5.19	5.33	61.60	64.85	68.09
BMS13-67T02C01G010	10	1	0.13	5.30	6.34	5.87	6.04	6.22	87.99	92.61	97.26
BMS13-67T02C02G022	22	2	0.13	5.50	82.4	6.02	6.32	6.63	49.64	52.81	55.98
BMS13-67T02C02G020	20	2	0.13	5.82	51.1	6.30	6.62	6.96	53.61	57.04	60.46
BMS13-67T02C02G018	18	2	0.13	6.34	32.7	6.86	7.13	7.42	63.64	67.70	71.77
BMS13-67T02C02G016	16	2	0.13	6.72	25.6	7.21	7.52	7.82	72.12	76.74	81.33
BMS13-67T02C02G014	14	2	0.13	7.28	16.6	7.77	8.10	8.43	86.44	90.99	95.53
BMS13-67T02C03G022	22	3	0.13	5.89	82.4	6.35	6.68	7.01	64.74	68.86	73.00
BMS13-67T02C03G020	20	3	0.13	6.23	51.1	6.65	7.02	7.37	70.58	75.08	79.59
BMS13-67T02C03G018	18	3	0.13	6.79	32.7	7.29	7.60	7.90	85.37	90.81	96.26
BMS13-67T02C03G016	16	3	0.13	7.20	25.6	7.67	8.00	8.33	97.12	103.31	109.52
BMS13-67T02C03G014	14	3	0.13	7.80	16.6	8.28	8.60	8.94	117.08	123.24	129.41
BMS13-67T02C04G022	22	4	0.13	6.53	82.4	6.99	7.34	7.70	80.50	85.63	90.77
BMS13-67T02C04G020	20	4	0.13	6.92	51.1	7.34	7.71	8.10	87.78	93.39	98.98
BMS13-67T02C04G018	18	4	0.13	7.54	32.7	8.00	8.34	8.66	106.51	113.31	120.11
BMS13-67T02C04G016	16	4	0.13	8.00	25.6	8.43	8.80	9.14	122.21	130.01	137.80
BMS13-67T02C04G014	14	4	0.13	8.68	16.6	9.09	9.47	9.86	148.19	156.00	163.80

DIMENSIONS AND WEIGHTS (INCH, POUND)

BASIC CORE

FILOTEX® PART NUMBER	US AWG	Conductors			Finished Wire				
		Strands (No. x AWG)	O.D. (inch)		Maximum DC Resistance (Ohms/1000 ft)		Diameter (inch)		Weight (lb/1000 ft)
			Nom.	Max .	at 23°C (73°F)	at 370°C (698°F)	Nom.	Max.	Nom.
BMS13-67T0°C01G022	22	37 / 37	0.031	0.033	24.6	58.7	0.098	0.103	7.61
BMS13-67T0°C01G020	20	7 x 7 / 37	0.039	0.041	15.3	36.08	0.104	0.110	8.55
BMS13-67T0°C01G018	18	7 x 7 / 35	0.051	0.052	9.77	22.64	0.115	0.119	11.22
BMS13-67T0°C01G016	16	7 x 7 / 33	0.059	0.061	7.66	17.00	0.122	0.127	13.51
BMS13-67T0°C01G014	14	7 x 7 / 32	0.071	0.074	4.97	11.00	0.133	0.138	17.15
BMS13-67T0°C01G012	12	7 x 7 / 30	0.092	0.093	3.20	7.08	0.154	0.159	25.01
BMS13-67T0°C01G010	10	7 x 7 / 27	0.122	0.128	1.93	4.27	0.188	0.194	40.25

FINISHED CABLE

FILOTEX® PART NUMBER	US AWG	Nbr of Cores	Shield		Finished Cable						
			Strands AWG Size	O.D. (inch) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/1000 ft) Max.	Diameter (inch)			Weight (lb/1000ft)		
						Min.	Nom.	Max.	Min.	Nom.	Max.
BMS13-67T02C01G022	22	1	36	0.119	24.6	0.139	0.146	0.153	18.7	19.89	21.08
BMS13-67T02C01G020	20	1	36	0.125	15.3	0.144	0.152	0.160	20.18	21.47	22.76
BMS13-67T02C01G018	18	1	36	0.135	9.77	0.159	0.165	0.171	24.04	25.58	27.11
BMS13-67T02C01G016	16	1	36	0.143	7.66	0.165	0.172	0.179	26.55	28.24	29.94
BMS13-67T02C01G014	14	1	36	0.154	4.97	0.176	0.184	0.192	32	33.68	35.37
BMS13-67T02C01G012	12	1	36	0.175	3.20	0.198	0.204	0.210	41.4	43.58	45.76
BMS13-67T02C01G010	10	1	36	0.209	1.93	0.231	0.238	0.245	59.13	62.24	65.36
BMS13-67T02C02G022	22	2	36	0.217	25.1	0.237	0.249	0.261	33.36	35.49	37.62
BMS13-67T02C02G020	20	2	36	0.229	15.6	0.248	0.261	0.274	36.03	38.33	40.63
BMS13-67T02C02G018	18	2	36	0.250	9.97	0.270	0.281	0.292	42.77	45.5	48.23
BMS13-67T02C02G016	16	2	36	0.265	7.81	0.284	0.296	0.308	48.47	51.57	54.66
BMS13-67T02C02G014	14	2	36	0.287	5.07	0.306	0.319	0.332	58.09	61.15	64.2
BMS13-67T02C03G022	22	3	36	0.232	25.1	0.250	0.263	0.276	43.51	46.28	49.06
BMS13-67T02C03G020	20	3	36	0.245	15.6	0.262	0.276	0.290	47.43	50.46	53.49
BMS13-67T02C03G018	18	3	36	0.267	9.97	0.287	0.299	0.311	57.37	61.03	64.69
BMS13-67T02C03G016	16	3	36	0.283	7.81	0.302	0.315	0.328	65.27	69.43	73.6
BMS13-67T02C03G014	14	3	36	0.307	5.07	0.326	0.339	0.352	78.68	82.82	86.97
BMS13-67T02C04G022	22	4	36	0.257	25.1	0.275	0.289	0.303	54.1	57.55	61
BMS13-67T02C04G020	20	4	36	0.272	15.6	0.289	0.304	0.319	58.99	62.76	66.52
BMS13-67T02C04G018	18	4	36	0.297	9.97	0.315	0.328	0.341	71.58	76.15	80.72
BMS13-67T02C04G016	16	4	36	0.315	7.81	0.332	0.346	0.360	82.13	87.37	92.61
BMS13-67T02C04G014	14	4	36	0.342	5.07	0.358	0.373	0.388	99.59	104.84	110.08

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Filotex®

STUDY 124585

Very High Temperature Fire Resistant Wires

Aero Engines and Very High Temperature Applications

PRODUCT REFERENCES

FILOTEX Ref : ET 124 585

CONSTRUCTION

CORE (study 124521)

- ① 19 strands of Nickel Clad Copper conductor (Diameter of strands: 0.287 mm)
- ② Special Fire Resistant Composite Insulation, very high temperature.

SCREEN

- ③ Nickel Clad Copper Helicoidal Screen (Diameter of strands: 0.13mm)

JACKET

- ④ Very high temperature resistant composite

Characteristics

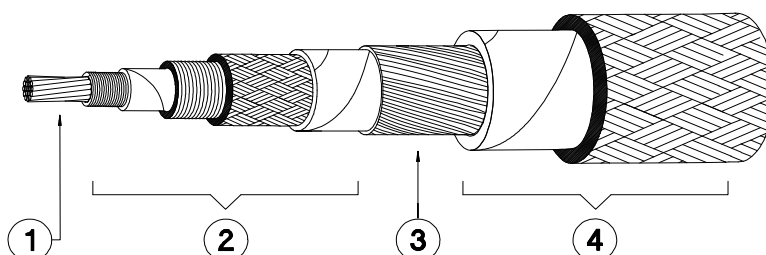
- ❑ Tension/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- ❑ Operating Temperatures : -65°C/+300°C
- ❑ Température rating : 20 000 hours at 300°C
- ❑ Operating Life (Approx), combination of :
 - 30 Hours at +370°C
 - +330 Hours at +350°C
 - +300 Hours at +310°C
 - +2500 Hours at +300°C
 - +32840 Hours at +260°C
- Therefore a Total of 36 000 hours at these time/temperature
- ❑ Dimensions and Weights : See Table on Reverse Side of This Data
- ❑ Fluids Resistance : According to BMS 13-55.
- ❑ Fire Resistance : According to BMS 13-55.

Applications

- ❑ Heavy Duty Applications in Aero-engines and Very High Temperature Areas.

Specification

- ❑ BMS 13-55 For Fire and Fluids Resistance
- ❑ ST 448 006 3 01 A



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 nexans

DIMENSIONS AND WEIGHTS

FILOTEX® Reference	US AWG	Conductor						Insulation		Screen		Finished cable		
		Construction (N x mm)	Diameter (mm)		DC resistance (Ohms/Km)		Diameter (mm)		Ø Strands (mm)	Ø Nom. (mm)	Ext. Diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.	Max. at 20°C	Nomi. at 370°C	Nom.	Max.			Mini.	Max.	Max.	
Et.124585	16	19 x 0.287	1.40	1.55	22.5	55.8	2.90	3.40	0.13	3.45	4.15	4.45	42	

Part 4

Coaxial cables for high frequency transmission

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KX & RG COAXIAL CABLES

From 50 Ohms to 75 Ohms

Filotex®

Applications

- ☐ Coaxial cables for high frequency connections

Electrical characteristics

- ☐ See on next page
- ☐ Jacket colour : Light Blue

Specifications

- ☐ MIL-DTL-17
- ☐ NF C 93-550

CONSTRUCTION

① CONDUCTOR

Stranded or solid,
In bare copper (BC)
Tin plated copper (TPC)
Silver plated copper (SPC)
Copper clad steel (CCS)
Or silver plated copper clad
steel (SPCCS)

② DIELECTRIC

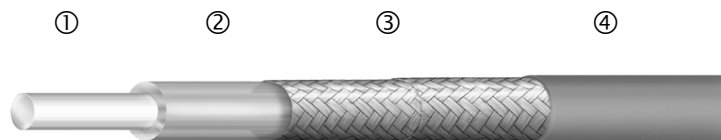
PE or PTFE

③ SCREEN

Single or double braid
in bare, tin plated or silver
plated copper

④ JACKET

PVC, FEP, PFA or glass fiber



Coaxial cables

Impedance	Max. op. temp	Dielectric	References according to	Nexans ref.	CONDUCTOR			Dielectric Ø mm	BRAIDS		SHEATH		Av. weight kg/km
			NF. C 93-550 or MIL C17		Composition n x Ø mm	Nature	Ø mm		Nb	Nature	Nature	Overall Ø mm	
50 Ω	85°C	PE	KX 15 RG 58 CU	373117	19 x 0.18	TPC	0.90	2.95 ± 0.10	1	TPC	PVC	4.95 ± 0.15	36
			RG 223 U	373184	1 x 0.89	SPC	0.89	2.95 ± 0.10	2	SPC	PVC	5.38 ± 0.10	55
			KX 4	373099	7 x 0.75	BC	2.25	7.25 ± 0.15	1	BC	PVC	10.30 ± 0.20	158
			RG 213 U	087023	7 x 0.75	BC	2.25	7.25 ± 0.15	1	BC	PVC	10.30 ± 0.20	158
			RG 214 U	373181	7 x 0.75	SPC	2.25	7.25 ± 0.18	2	SPC	PVC	10.80 ± 0.18	196
	200°C and +	PTFE	KX 21 A	087126	7 x 0.10	SPCCS	0.30	0.87 ± 0.07	1	SPC	FEP	1.80 ± 0.10	9.6
			RG 178 BU (M17/169-00001)	087069	7 x 0.10	SPCCS	0.30	0.84 ± 0.05	1	SPC	FEP	1.80 ± 0.10	9.6
			RG 196 (M17/93-00001)	087247	7 x 0.10	SPCCS	0.30	0.84 ± 0.05	1	SPC	PFA	1.80 ± 0.10	9.6
			KX 22 A	087017	7 x 0.17	SPCCS	0.51	1.50 ± 0.10	1	SPC	FEP	2.50 ± 0.10	17
			RG 316 U (M17/172-00001)	085790	7 x 0.17	SPCCS	0.51	1.52 ± 0.08	1	SPC	FEP	2.49 ± 0.10	17
			RG 188 AU (M17/138-00001)	087245	7 x 0.17	SPCCS	0.51	1.52 ± 0.08	1	SPC	PFA	2.49 ± 0.10	17
			RG 142 AU	087009	1 x 0.94	SPCCS	0.94	2.95 ± 0.13	2	SPC	Glass fibre	5.10 ± 0.15	66
			RG 142 BU (M17/158-00001)	087066	1 x 0.94	SPCCS	0.94	2.95 ± 0.13	2	SPC	FEP	4.95 ± 0.13	68
			RG 400 U (M17/175-00001)	087125	19 x 0.20	SPC	0.98	2.95 ± 0.13	2	SPC	FEP	4.95 ± 0.13	66
			KX 23	087063	7 x 0.34	SPC	1.02	2.95 ± 0.15	2	SPC	Glass fibre	5.10 ± 0.20	70
			RG 393 (M17/174-00001)	085398	7 x 0.80	SPC	2.40	7.24 ± 0.13	2	SPC	FEP	9.91 ± 0.25	241
			KX 24	087029	7 x 0.80	SPC	2.40	7.25 ± 0.12	2	SPC	Glass fibre	10.90 ± 0.25	216
75 Ω	85°C	PE	RG 59 BU	390650	1 x 0.58	CCS	0.58	3.71 ± 0.10	1	BC	PVC	6.15 ± 0.10	50
	200°C and +	PTFE	RG 179 BU (M17/94-RG 179)	081997	7 x 0.10	SPCCS	0.30	1.60 ± 0.08	1	SPC	FEP	2.54 ± 0.13	16.9
			RG 187 AU (M17/136-00001)	087244	7 x 0.10	SPCCS	0.30	1.60 ± 0.08	1	SPC	PFA	2.54 ± 0.13	16.9

BC : bare copper

CCS : copper clad steel

TCP : tin plated copper

SPCCS : silver plated copper clad steel

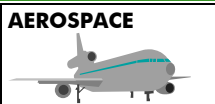
SPC : silver plated copper

Coaxial cables

Operating temperature Min/Max	Fire properties	Max. op. frequency GHz	Nominal capacitance pF/m	Attenuation (db/100 m)				Dielectric strength kV	Powers at 40°C (kw)				Velocity of propagation	Continuous working voltage
				200 MHz	400 MHz	3000 MHz	10000 MHz		200 MHz	400 MHz	3000 MHz	10000 MHz		
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	3	100.0	23	32	98		5	0.125	0.09	0.031		65.9	1400
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	12.4	106.0	20	30	100	240	5	0.125	0.09	0.031	0.017	65.9	1400
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	3	100.0	9.5	14.5	55		5	0.42	0.3	0.095	0.05	65.9	3700
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	3	100.0	9.5	14.5	55		5	0.42	0.3	0.095	0.05	65.9	3700
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	11	106.0	9	13	46	100	10	0.42	0.3	0.095	0.05	65.9	3700
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	95.0	65	95	300		1	0.085	0.057	0.018		69.5	750
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	58	80	225		2	0.085	0.057	0.018		69.5	750
-90 +230	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	58	80	225		2	0.085	0.057	0.018		69.5	750
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	95.0	40	55	160		2	0.17	0.11	0.032		69.5	900
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	40	55	160		2	0.17	0.11	0.032		69.5	900
-90 +230	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	40	55	160		2	0.17	0.11	0.032		69.5	900
-90 +250	NF C 32070/C1&C2 IEC 60332 – 1	3	95.0	19	27	79	163	5	0.66	0.45	0.15	0.08	69.5	1400
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	19	27	79	163	5	0.66	0.45	0.15	0.08	69.5	1400
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	105.0	20	29	89	185	5	0.66	0.45	0.15	0.08	69.5	1400
-90 +250	NF C 32070/C1&C2 IEC 60332 – 1	3	95.0	20	29	89	185	5	0.66	0.45	0.15	0.08	69.5	1400
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	11	105.0	9.3	14	47	109	4	2	1.3	0.43	0.22	69.5	3700
-90 +250	NF C 32070/C1&C2 IEC 60332 – 1	3	95.0	9.3	14	47	109	10	2	1.3	0.43	0.22	69.5	3700
-40 +85	NF C 32070/C2 IEC 60332 – 1&2	1	72.2	16	23	73		7	0.17	0.12	0.042		65.9	1700
-90 +200	NF C 32070/C1&C2 IEC 60332 – 1	3	75.5	40	56	160		2	0.17	0.11	0.032		69.5	900
-90 +230	NF C 32070/C1&C2 IEC 60332 – 1	3	72.2	40	56	160		2	0.17	0.11	0.032		69.5	900

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STUDY 124962

Laser UV miniature coaxial cable

Filotex®

PRODUCT REFERENCES

ET 124962

ET 124964

CONSTRUCTION

- ① CONDUCTOR
19 x 0.098 mm
Silvered alloy
Nom. diameter = 0.48 mm.
- ② INSULATION
Expanded PTFE
Nom. diameter = 1.35 mm
- ③ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 %
- ④ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 % US
Nom. diameter = 2.00 mm
- ⑤ JACKET
Laser UV ETFE markable
OD 2.35 ± 0.05 mm

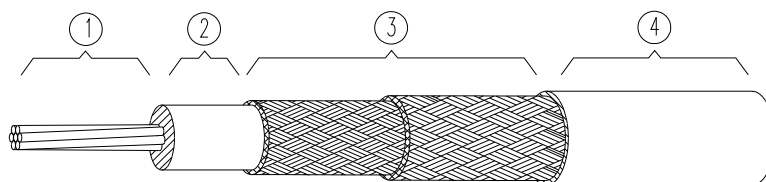
Electrical characteristics

- ❑ Characteristic impedance : $50 \pm 5 \Omega$
- ❑ Linear capacitance at 1 kHz
Nominal value : 90 pF/m
Maximal value : 100 pF/m
- ❑ Attenuation at 10 MHz : 0.09 dB/m
100 MHz : 0.26 dB/m
200 MHz : 0.37 dB/m
500 MHz : 0.65 dB/m
1000 MHz : 1.06 dB/m
1500 MHz : 1.33 dB/m
- ❑ Voltage rating : 250 Volts Eff 50 Hz.
- ❑ Voltage withstanding: between dielectric and shield:
3000 Volts Eff 50 Hz.
- ❑ Jacket spark test : 5000 Volts impulse.
- ❑ DC resistance at 20°C : ≤ 144 ohms/Km.
- ❑ Insulation resistance :
between dielectric and shield : ≥ 1500 Mohms . Km.
Jacket: ≥ 1500 Mohms . Km.

- ❑ Nominal relative velocity of propagation : 76%

Physical characteristics

- ❑ Nominal weight : 13.0 g/m
- ❑ Maximum weight : 14.0 g/m.
- ❑ Minimum bending radius :
Static : 12 mm.
Dynamic : 25 mm.
- ❑ Strippability : mechanical device or automatic stripper.
- ❑ Temperature rating: -65°C to +150°C
- ❑ Outer jacket color : green



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Physical characteristics

- ❑ Fire resistance : No flame propagation (NFC 32070/C1)
Low smoke emission
- ❑ Resistance to fluids : good resistance to aircraft fluids.

Applications

- ❑ With similar transmission characteristics to KX 22A / RG 316U,
- ❑ This cable has the following advantages :
 - Lower diameter and weight .
 - Better bendability.
 - Better screening effectiveness (Double braid)
 - UV Laser marquability
- ❑ Recommended for Aeronautics uses and miniature systems.

Specifications :

- ❑ NFC 93 550 and MIL C 17



Filotex®

STUDY 132868

CAC 875

75 Ohms Coaxial Cable – 150 °C

UV Laser Markable

PRODUCT REFERENCES

ET 132868

CONSTRUCTION

① CONDUCTOR

7 x 0.10 mm strands of
high strength silver plated
copper alloy
Diameter : 0.30 ± 0.025 mm

② INSULATION

Fluorocarbon dielectric with
low epsilon
Max. diameter : 1.30 mm

③ SHIELD

Silver plated copper
double braid
Strand diameter : 0.08 mm
Min. Diameter : 1.75 mm
Max. Diameter : 1.95 mm

④ JACKET

Laser UV ETFE
Max. diameter : 2.37 mm

Applications

- ❑ Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics

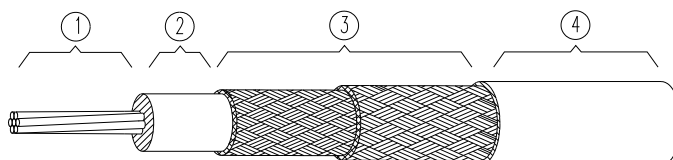
- ❑ Operating temperature: -65°C to +150°C.(Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 15 mm
- ❑ Dynamic bend radius : 25 mm
- ❑ Max weight: 12.5 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant

Electrical characteristics

- ❑ See on next page
- ❑ Jacket colour : Light Blue

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and – SP132868
- ❑ Tested according to prEN 3475.



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- ❑ Dry test voltage between core and shield : 2000 Vac
- ❑ Jacket dry impulse test : 5000 V
- ❑ Operating voltage : 900 V RMS max.
- ❑ Ohmic resistance of conductor : 384 Ω /Km max.
- ❑ Insulation resistance : ≥ 5000 Mohms.km
- ❑ Characteristic impedance : 75 $\pm$ 5 Ω
- ❑ Linear capacitance : 60 pF/m max.
- ❑ Velocity of propagation : $\geq 222\,000$ km/s (74% relative)
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	1 250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176



STUDY 124964

Laser UV miniature triaxial cable

Filotex®

PRODUCT REFERENCES

ET 124964

ET 124962

CONSTRUCTION

Basic core: study 124962

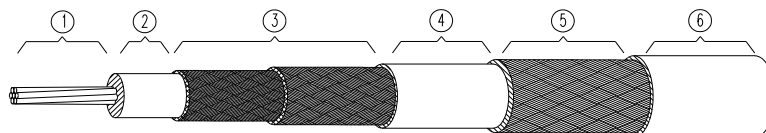
- ① CONDUCTOR
19 x 0.098 mm
Silver copper alloy
Nom. diameter = 0.48 mm.
- ② INSULATION
Expanded PTFE
Nom. diameter = 1.35 mm
- ③ SHIELD
Silver plated copper 7/100
Coverage $\geq 62\%$
- ③ SHIELD
Silver plated copper 7/100
Coverage $\geq 62\%$ US
Nom. diameter = 2.00 mm
- ④ JACKET
FEP
OD 2.35 ± 0.05 mm
- ⑤ SHIELD
Silver plated copper 10/100
Coverage $\geq 62\%$
Nom. diameter = 2.80 mm
- ⑥ JACKET
Laser UV ETFE markable
OD 3.45 ± 0.10 mm

Electrical characteristics

- ❑ Characteristic impedance : $50 \pm 5 \Omega$
- ❑ Linear capacitance at 1 kHz
Nominal value : 90 pF/m
Maximal value : 100 pF/m
- ❑ Attenuation at 10 MHz : 0.09 dB/m
100 MHz : 0.26 dB/m
200 MHz : 0.37 dB/m
500 MHz : 0.65 dB/m
1000 MHz : 1.06 dB/m
1500 MHz : 1.33 dB/m
- ❑ Voltage rating : 250 Volts Eff 50 Hz.
- ❑ Voltage withstanding: between dielectric and shield:
3000 Volts Eff 50 Hz.
- ❑ Jacket spark test : 5000 Volts impulse.
- ❑ DC resistance at 20°C: ≤ 144 ohms/Km.
- ❑ Insulation resistance :
between dielectric and shield : ≥ 1500 Mohms . Km.
Jacket: ≥ 1500 Mohms . Km.
- ❑ Nominal relative velocity of propagation : 76%

Physical characteristics

- ❑ Nominal weight : 27.0 g/m
- ❑ Maximum weight : 30.0 g/m.
- ❑ Minimum bending radius :
Static : 17 mm.
Dynamic : 35 mm.
- ❑ Strippability : mechanical device or automatic stripper.
- ❑ Temperature rating: -65°C to $+150^\circ\text{C}$
- ❑ Outer jacket color : green



Physical characteristics

- ❑ Fire resistance : No flame propagation (NFC 32070/C1)
Low smoke emission
- ❑ Resistance to fluids : good resistance to aircraft fluids.

Applications

- ❑ With similar transmission characteristics to KX 22A / RG 316U,
- ❑ This cable has the following advantages :
 - Lower diameter and weight .
 - Better bendability.
 - Better screening effectiveness (Double braid)
 - UV Laser marquability
- ❑ Recommended for Aeronautics uses and miniature systems.

Specifications :

- ❑ NFC 93 550 and MIL C 17



Filotex®

STUDY 132869

CAC 876

75 Ohms Triaxial Cable – 150 °C

UV Laser Markable

PRODUCT REFERENCES

ET 132868

ET 132869

CONSTRUCTION

- ① CONDUCTOR
7 x 0.10 mm strands of
high strength silver plated
copper alloy
Diameter : 0.30 ± 0.025 mm
- ② INSULATION
Fluorocarbon dielectric with
low epsilon
Max. diameter : 1.30 mm
- ③ SHIELD
Silver plated copper
double braid
Strand diameter : 0.08 mm
Min. Diameter : 1.75 mm
Max. Diameter : 1.95 mm
- ④ INNER JACKET
ETFE
Diameter : 2.32 ± 0.05 mm
- ⑤ SHIELD
Silver plated copper
Strand diameter : 0.10 mm
- ⑥ OUTER JACKET
Laser UV ETFE
Max. diameter : 3.47 mm

Applications

- ❑ Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics

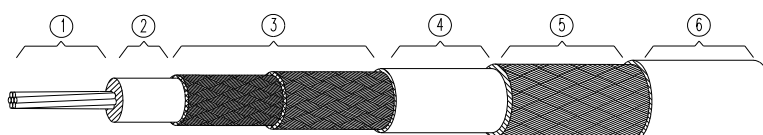
- ❑ Operating temperature: -65°C to $+150^{\circ}\text{C}$. (Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 17 mm
- ❑ Dynamic bend radius : 35 mm
- ❑ Max weight: 25.5 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant

Electrical characteristics

- ❑ See on next page
- ❑ Inner Jacket colour : Light Blue
- ❑ Outer Jacket colour : Light Blue

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and – SP132869
- ❑ Tested according to prEN 3475.



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 **nexans**

- ❑ Dry test voltage between core and shield : 2000 Vac
- ❑ Jacket dry impulse test : 5000 V
- ❑ Operating voltage : 900 V RMS max.
- ❑ Ohmic resistance of conductor : 384 Ω /Km max.
- ❑ Insulation resistance : ≥ 5000 Mohms.km
- ❑ Characteristic impedance : 75 $\pm$ 5 Ω
- ❑ Linear capacitance : 60 pF/m max.
- ❑ Velocity of propagation : $\geq 222\,000$ km/s (74% relative)
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	1 250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176



EN 4604-003 WZ 50 Ohms Coaxial Cable, 200°C Operating Temperature

Filotex®

PRODUCT REFERENCES

EN 4604-003

CONSTRUCTION

- ① CONDUCTOR
Solid Silver plated copper
OD : 0.88 to 0.93
- ② INSULATION
Low density PTFE
OD : 2.35 ± 0.15 mm
- ③ SHIELD
Metallized foil
Silver plated copper braid
OD : 3.05 ± 0.15
- ④ JACKET
White FEP
OD : 3.55 ± 0.15 mm

Applications

- ❑ Designed for Signal Transmission Applications in Aeronautic environment.

Main characteristics

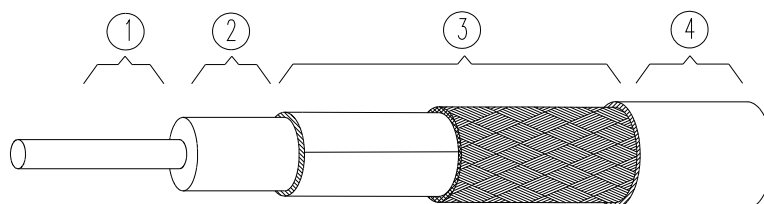
- ❑ Operating temperature: -65°C to +200°C.(Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 37 mm
- ❑ Dynamic bend radius : 100 mm
- ❑ Max weight: 30 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ UV Laser markable Jacket.

Electrical characteristics

- ❑ See on next page

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -003
- ❑ Tested according to prEN 3475 and pr EN 3838.



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 **nexans**

- ❑ Jacket Color identification : Green or Black
- ❑ Cable identification : Marking text : EN WN FRF**
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ** = Year of manufacturing (ie. 02=2002)

- ❑ Dielectric strength : 4000 Vac
- ❑ Corona extinction voltage : 1700 Vac
- ❑ Insulation resistance : ≥ 1000 Mohm.km
- ❑ Characteristic impedance : $50 \pm 2 \Omega$
- ❑ Linear capacitance : 88 pF/m max.
- ❑ Velocity of propagation : 225 000 km/s min. (75% relative)
- ❑ Transfer impedance : 30 mohms/m, up to 3GHz
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	1100	11
200	660	19
400	450	28
1000	250	47
3000	150	90



Filotex®

EN 4604-004 WS 50 Ohms Coaxial Cable, 200°C Operating Temperature

PRODUCT REFERENCES

EN 4604-004

CONSTRUCTION

① CONDUCTOR

7 x 0.16 mm strands of
silver plated copper
OD : 0.51 mm

② INSULATION

Fluorocarbon
OD : 1.50 mm

③ SHIELD

1st layer

Silver plated copper braid
Strand diam : 0.085 mm

2nd layer

High permeability tape

3rd layer

Silver plated copper braid
Strand diam : 0.085 mm
OD : 2.20 ± 0.14 mm

④ JACKET

2 Polyimide tapes

OD : 2.40 ± 0.16 mm
Colour : amber

Applications

- ❑ Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics

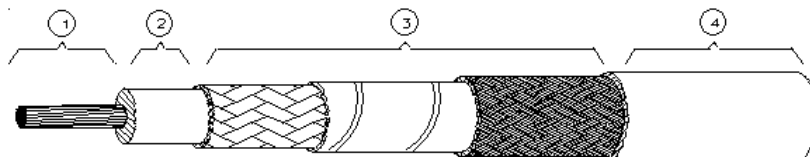
- ❑ Operating temperature: -55°C to +200°C.(Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 15 mm
- ❑ Dynamic bend radius : 28 mm
- ❑ Max weight: 20 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant
- ❑ Especially designed for high EMC performances.

Electrical characteristics

- ❑ See on next page

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -004
- ❑ Tested according to prEN 3475.



- ☐ Cable identification : Marking text : EN WS FRF**
 Marking Colour : Black
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ** = Year of manufacturing (ie. 05=2005)

- ☐ Dielectric strength : 1500 Vac
☐ Operating voltage : 1300 Vac
☐ Insulation resistance : ≥ 5000 Mohm.km
☐ Characteristic impedance : $50 \pm 5 \Omega$
☐ Linear capacitance : 95 ± 10 pF/m
☐ Velocity of propagation : 207 000 km/s nominal (69% relative)
☐ Transfer impedance : ≤ 45 m Ω /m up to 100 MHz
☐ Maximal attenuation and power handling: : see table

Frequency (MHz)	Max Power Handling (W)	Attenuation at 20°C (dB/100m)
50	600	26
100	400	36
200	270	55
400	180	78
1000	120	140
3000	75	195



EN 4604-005 WL 75 Ohms Coaxial Cable 200°C Operating Temperature

Filotex®

PRODUCT REFERENCES

EN 4604-005

CONSTRUCTION

① CONDUCTOR

7 x 0.10 mm strands of
high strength silver plated
copper alloy
Diameter : 0.30 ± 0.025 mm

② INSULATION

Fluorocarbon
Max. diameter : 1.30 mm

③ SHIELD

Silver plated copper
double braid
Strand diameter : 0.08 mm
Min. Diameter : 1.75 mm
Max. Diameter : 1.95 mm

④ JACKET

Fluorocarbon
Max. diameter : 2.35 mm

Applications

- ❑ Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics

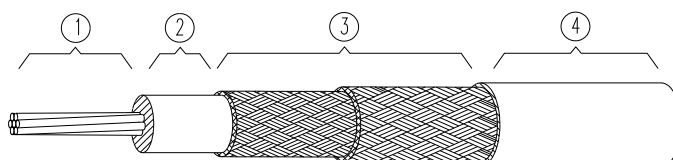
- ❑ Operating temperature: -55°C to +200°C.(Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details on next page
- ❑ Static bend radius: 15 mm
- ❑ Dynamic bend radius : 25 mm
- ❑ Max weight: 12.5 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant

Electrical characteristics

- ❑ See next page

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -005
- ❑ Tested according to prEN 3475-100



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- ❑ Jacket Color : Blue
- ❑ Cable identification : Black Marking : EN WL FRF**
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of manufacturing (ie. 05=2005)

- ❑ Dielectric strength : 2000 Vac
- ❑ Operating voltage : 900 V RMS max.
- ❑ Ohmic resistance of conductor : 384 Ω /Km max.
- ❑ Insulation resistance : ≥ 5000 Mohms.km
- ❑ Characteristic impedance at 200 MHz : $75 \pm 5 \Omega$
- ❑ Linear capacitance : 60 pF/m max.
- ❑ Velocity of propagation : $\geq 222\,000$ km/s (74% relative)
- ❑ Transfer impedance : ≤ 30 m Ω /m up to 100 MHz
- ❑ Maximal attenuation and power handling : see table

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	1 250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176



EN 4604-006 WM 50 Ohms Coaxial Cable, 200°C Operating Temperature

PRODUCT REFERENCES

EN 4604-006

CONSTRUCTION

① CONDUCTOR

Solid silver plated copper
OD : 1.02 ± 0.03 mm

② INSULATION

Low density PTFE
OD : 2.84 ± 0.10 mm

③ SHIELD

1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand diam. : 0.10 mm
OD : 3.50 ± 0.20 mm

④ JACKET

Violet FEP
OD : 3.85 ± 0.15 mm

Applications

- ❑ Designed for high frequency signal transmission in aircraft electrical systems

Main characteristics

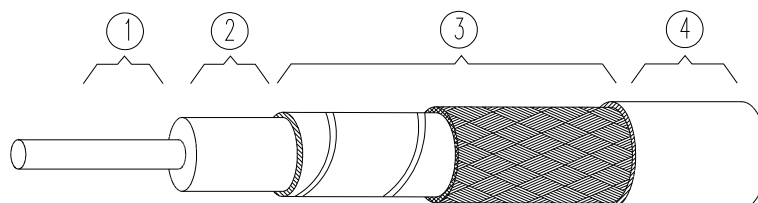
- ❑ Operating temperature: -55°C to $+200^{\circ}\text{C}$. (Ambient. + Rise)
- ❑ Operating frequency: up to 5 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 25 mm
- ❑ Dynamic bend radius : 70 mm
- ❑ Max weight: 35 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant.

Electrical characteristics

- ❑ See on next page

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -006
- ❑ Tested according to prEN 3475.



- ❑ Jacket Color identification : Black
- ❑ Cable identification : Marking text : EN WM FRF**
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ** = Year of manufacturing (ie. 02=2002)

- ❑ Dielectric strength : 2500 Vac
- ❑ Operating voltage : 750 Vac
- ❑ Insulation resistance : ≥ 5000 Mohm.km
- ❑ Characteristic impedance : $50 \pm 3 \Omega$
- ❑ Linear capacitance : 82 pF/m maximum
- ❑ Velocity of propagation : 243 000 km/s nominal (81% relative)
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	2800	8
100	2000	11.5
400	1100	20.5
1000	600	40
5000	300	85



EN 4604-007 WN 50 Ohms Coaxial Cable, 200°C Operating Temperature

PRODUCT REFERENCES

EN 4604-007

CONSTRUCTION

- ① CONDUCTOR
Solid silver plated copper
OD : 2.30 ± 0.03 mm
- ② INSULATION
Expanded PTFE
OD : 6.20 ± 0.10 mm
- ③ SHIELD
1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand diam : 0.20 mm
OD : 7.5 ± 0.20 mm
- ④ JACKET
Violet FEP
OD : 8.00 ± 0.20 mm

Applications

- ❑ Designed for high frequency signal transmission in aircraft electrical systems

Main characteristics

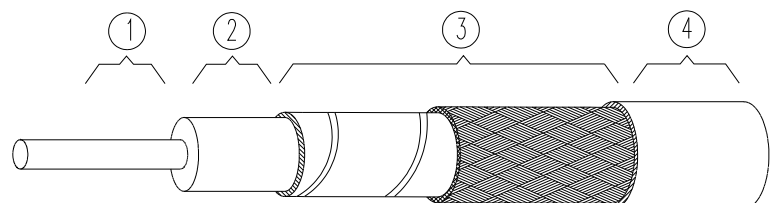
- ❑ Operating temperature: -55°C to $+200^{\circ}\text{C}$. (Ambient. + Rise)
- ❑ Operating frequency: up to 6 GHz.
- ❑ Dimensions: see construction details hereunder
- ❑ Static bend radius: 80 mm
- ❑ Dynamic bend radius : 120 mm
- ❑ Max weight: 145 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant.

Electrical characteristics

- ❑ See on next page

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -007
- ❑ Tested according to prEN 3475.



- ❑ Jacket Color identification : Black
- ❑ Cable identification : Marking text : EN WN FRF**
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ** = Year of manufacturing (ie. 05=2005)

- ❑ Dielectric strength : 3000 Vac
- ❑ Operating voltage : 1000 Vac
- ❑ Insulation resistance : ≥ 5000 Mohm.km
- ❑ Characteristic impedance : $50 \pm 3 \Omega$
- ❑ Linear capacitance : 82 pF/m maximum
- ❑ Velocity of propagation : 243 000 km/s nominal (81% relative)
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	8000	3.5
100	5000	5.5
400	3000	10
1000	2000	15
5000	800	35
6000	700	41



Filotex®

EN 4604-008 WD 50 Ohms Coaxial Cable, 200°C Operating Temperature

PRODUCT REFERENCES

EN 4604-008

CONSTRUCTION

① CONDUCTOR

37 x 0.34 mm
Silver plated copper
Diameter 2.33 ± 0.05 mm

② DIELECTRIC

Low density Fluorocarbon
Diameter 6.0 ± 0.10 mm

③ SHIELD

Two braids
Silver plated copper 0.13 mm
Diameter 7.10 ± 0.10 mm

④ JACKET

White FEP
Diameter 7.70 ± 0.20 mm

Applications

- ❑ Designed for high frequency radio communications applications in aeronautic environment.

Main data

- ❑ Operating temperature : -55°C to $+200^{\circ}\text{C}$. (Ambient. + Rise)
- ❑ Operating frequency : up to 8 GHz.
- ❑ Dimensions : see construction details hereunder
- ❑ Static bend radius : 40 mm
- ❑ Dynamic bend radius : 80 mm
- ❑ Max weight : 137 g/m
- ❑ Very Good Resistance to Aircraft Fluids.
- ❑ Mould and Fungus Resistant

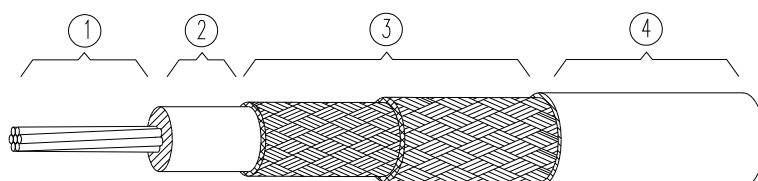
Electrical characteristics

- ❑ See on next page.

Specifications

- ❑ Product designed according to : prEN 4604-001, -002 and -008
- ❑ Tested according to prEN 3475.

EN 4604-008 WD



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- ❑ Jacket Color identification : Black
- ❑ Cable identification : Marking text : EN WD FRF**
 FR = Country of Origin (FR = France)
 F = Manufacturer (F = Filotex®)
 ** = Year of manufacturing (ie. 05=2005)

- ❑ Dielectric strength : 2500 Vac
- ❑ Ionization extinction voltage : 1500 Vac
- ❑ Insulation resistance : $\geq 1000 \text{ Mohm.km}$
- ❑ Characteristic impedance : $50 \pm 2 \Omega$
- ❑ Linear capacitance : 90 pF/m maximum
- ❑ Velocity of propagation : 240 000 km/s nominal
- ❑ Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	5700	5.0
100	4000	7.2
150	3100	9.1
200	2700	10.7
400	1800	16.1
1000	1000	28.6
1600	730	39.6
2500	530	55.0
3000	480	61.0
8000	250	110.0

TRANSFER IMPEDANCE

Frequency (MHz)	Maximum values mΩ/m
From 0 to 0.01	4.2
0.1	4.0
1	1.3
5	0.6
10	1.0
30	2.2
100	5.3



ECS0757 KE

Filotex®

Miniature triaxial cable

Electrical characteristics

- ❑ Characteristic impedance : $50 \pm 2 \Omega$
- ❑ Linear capacitance at 1 kHz
Maximal value : 105 pF/m
- ❑ Maximum Attenuation at
 - 10 MHz : 9.5 dB/100m
 - 100 MHz : 35 dB/100m
 - 200 MHz : 49 dB/100m
 - 400 MHz : 69 dB/100m
 - 500 MHz : 77 dB/100m
 - 1000 MHz : 108
- 1500 MHz : 133

LINE OF PRODUCTS

Study 132847

CONSTRUCTION

- ① CONDUCTOR
7 x 0.175 mm Silver plated
copper alloy
Nom. diameter = 0.53 mm.
- ② INSULATION
PTFE
Nom. diameter = 1.52 mm
- ③ SHIELD
Silver plated copper 10/100
Coverage $\geq 65 \%$
Nom. diameter = 1.98 mm
- ④ INNER JACKET
FEP
OD 2.49 ± 0.10 mm
- ⑤ SHIELD
Silver plated copper 10/100
Coverage $\geq 65 \%$
Nom. diameter = 2.94 mm
- ⑥ JACKET
FEP
OD = 3.50 ± 0.15 mm

Physical characteristics

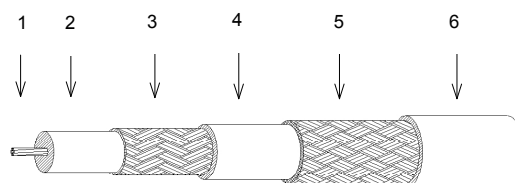
- ❑ Nominal weight : 30 g/m
- ❑ Minimum bending radius :
 - Static : 18 mm.
 - Dynamic : 35 mm.
- ❑ Strippability : mechanical device or automatic stripper.
- ❑ Temperature rating: -65°C to $+200^{\circ}\text{C}$

Identification

- ❑ Inner and Outer jacket color : Transparent green
With a marker tape placed beneath the outer jacket.
'KE FR F **'
** : Year of manufacturing

Specification

ECS0757



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Fax : + 33 1 69 42 05 70





ECS0745 KC 75 Ohms Triaxial Cable – 200 °C

Filotex®

PRODUCT REFERENCES

Study 132954

CONSTRUCTION

① CONDUCTOR

7 x 0.10 mm strands of
high strength silver plated
copper alloy
Diameter : 0.30 ± 0.025 mm

② INSULATION

Fluorocarbon

Max. diameter : 1.30 mm

③ SHIELD

Silver plated copper
double braid
Strand diameter : 0.08 mm
Max. Diameter : 1.95 mm

④ INNER JACKET

Fluorocarbon
Max. diameter: 2.37 mm

⑤ SHIELD

Silver plated copper
Strand diameter : 0.10 mm

⑥ OUTER JACKET

Fluorocarbon
Diameter : 3.40 ± 0.10 mm

Applications

- ❑ Designed for radio frequency signal transmission in aircraft radio communication systems.

Main characteristics

- ❑ Operating temperature: -65°C to +200°C.(Ambient. + Rise)
- ❑ Operating frequency: up to 3 GHz.
- ❑ Dimensions: see construction details on next page
- ❑ Static bend radius: 17 mm
- ❑ Dynamic bend radius: 35 mm
- ❑ Max weight: 27 g/m
- ❑ Very Good Resistance to Aircraft Fluids
- ❑ Mould and Fungus Resistant

Electrical characteristics

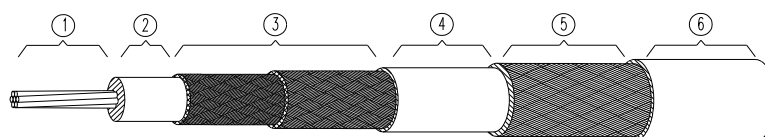
- ❑ See on next page

Specifications

- ❑ ECS 0745
- ❑ Tested according to prEN 3475.

Identification

- ❑ Inner Jacket colour : Blue
- ❑ Outer Jacket colour : Blue
- ❑ Marking: KC FR F **
(** Year of manufacturing)



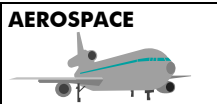
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- ❑ Dry test voltage between core and shield : 2000 Vac
- ❑ Inner and outer Jacket dry impulse test : 5000 V
- ❑ Operating voltage : 500 V RMS max.
- ❑ Ohmic resistance of conductor : 384 Ω /Km max.
- ❑ Insulation resistance : ≥ 5000 Mohms.km (conductor/shield)
: ≥ 1500 Mohms.km (between shields)
- ❑ Characteristic impedance : $75 \pm 5 \Omega$
- ❑ Linear capacitance : 60 pF/m max. at 1 kHz
- ❑ Velocity of propagation : $\geq 222\,000$ km/s (74% relative)
- ❑ Transfer impedance : ≤ 30 m Ω /m up to 100 MHz
- ❑ Maximal attenuation and handling power : see table 1

TABLE 1

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
10	640	10
50	290	23
100	200	30
200	140	43
300	110	53
400	100	63
1000	65	102
3000	37	176



PAN 6422 PTFE Coaxial Laser Markable Cables

Filotex®

PRODUCT REFERENCES

PAN 6422 ++

CONSTRUCTION

① CONDUCTOR

Stranded conductors :
See table on this data sheet.

② INSULATION

Extruded PTFE

③ SHIELD

Silver plated copper single
or double braid

④ JACKET

Polyimide Tape
UV Laser PTFE Tape(s)
(Munsell colour limits 5YR
6/4 to 5YR 7/4)

Main data

- ☐ Voltage Rating : see table on this data sheet.
- ☐ Peak Temperature : 200°C.
- ☐ Operating Frequency : up to 1 Ghz.
- ☐ Bend Radius : Minimum 6 times cable O.D.
- ☐ Dimensions and high frequency characteristics : see table on this data sheet.
- ☐ Very good resistance to solvents.
- ☐ Very good resistance to soldering operations.

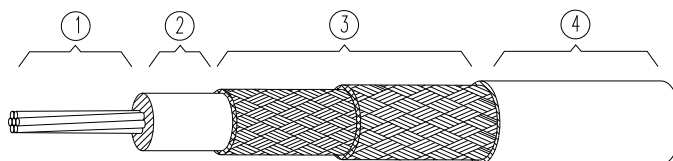
Applications

- ☐ For general purpose coaxial cables

Specifications

- ☐ PAN6422
- ☐ MIL-C-17
- ☐ BS2316

PAN 6422 SINGLE OR DOUBLE BRAID



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 **nexans**

DIMENSIONS AND WEIGHTS (METRIC UNITS)

FILOTEX PART NUMBER	MIL-C-17 PART NUMBER	CONDUCTOR			INSULATION	SHIELD		FINISHED CABLE	
		Composition (Nbr x Dia. of strand in mm)	Nature	Nom. Dia. (mm)	Nom. Diameter (mm)	Number	Nature	Nom. Diameter (mm)	Nom. Weight (Kg/Km)
PAN 6422 XQ	M17/172-00001 (RG316/U)	7 x 0.1702	SPCCS	0.51	1.52	1	SPC	2.22	14
PAN 6422 XR	M17/175-00001 (RG400/U)	19 x 0.195	SPC	0.96	2.95	2	SPC	4.28	58
PAN 6422 XS	M17/86-00001 (RG225/U)	7 x 0.792	SPC	2.38	7.25	2	SPC	9.15	223
PAN 6422 XT	M17/169-00001 (RG178/U)	7 x 0.1016	SPCCS	0.30	0.82	1	SPC	1.54	7.2
PAN 6422 XU	URM107	7 x 0.82	SPC	2.46	7.25	1	SPC	8.66	180
PAN 6422 XW	URM108	1 x 1.0	SPC	1.0	2.95	1	SPC	3.87	46
PAN 6422 XX	M17/110-RG302 (RG302/U)	1 x 0.635	SPCCS	0.635	3.71	1	SPC	4.59	49
PAN 6422 XY	M17/94-RG179 (RG179/U)	7 x 0.1016	SPCCS	0.30	1.60	1	SPC	2.30	14
PAN 6422 XZ	M17/95-RG180 (RG180/U)	7 x 0.1016	SPCCS	0.30	2.59	1	SPC	3.29	26

SPCCS : Silver plated Copper covered Steel

ELECTRICAL CHARACTERISTICS

FILOTEX PART NUMBER	MIL-C-17 PART NUMBER	Nominal Impedance (Ω)	Attenuation dB/100m at (MHz)				VOLTS RMS (Max)
			10	100	400	1000	
PAN 6422 XQ	M17/172-00001 (RG316/U)	50	19.7	37.4	65.6	101.5	900
PAN 6422 XR	M17/175-00001 (RG400/U)	50	3.96	14.4	31.6	53.2	1400
PAN 6422 XS	M17/86-00001 (RG225/U)	50	1.97	6.9	14.8	25.0	3700
PAN 6422 XT	M17/169-00001 (RG178/U)	50	18.45	46.0	92.0	151.0	750
PAN 6422 XU	URM107	50	1.7	6.3	13.6	23.4	3500
PAN 6422 XW	URM108	50	3.6	13.4	29.1	46.3	1400
PAN 6422 XX	M17/110-RG302 (RG302/U)	75	2.96	10.8	26.3	42.6	1700
PAN 6422 XY	M17/94-RG179 (RG179/U)	75	17.45	32.9	52.5	79.0	900
PAN 6422 XZ	M17/95-RG180 (RG180/U)	95	3.96	14.4	31.6	53.2	1100



ASNE 0293 XF 50 Ohms Coaxial Cable

Filotex®

Applications

- ☐ Avionic interconnexion.

PRODUCT REFERENCES

ASNE 0293 XF

Main data

- ☐ Voltage Rating: 600 Volts RMS
- ☐ Operating Temperature: -65°C / +200°C
- ☐ Mean Attenuation:

10 MHz	4.3 dB/100m
200 MHz	19 dB/100m
400 MHz	28 dB/100m
3000 MHz	95 dB/100m
10000 MHz	210 dB/100m

CONSTRUCTION

- ① CORE
Stranded conductor, 19 x 0.20
Silver Plated Copper
- ② INSULATION
Extruded PTFE
Nom. Diam. 2.95 mm
- ③ SCREEN
Dual Silver plated copper
braid.
Strands diam. 0.13 mm
Overall nom. Diam. 4.06 mm
- ④ JACKET
FEP
Maximum Diameter = 5.08 mm
Nominal Weight = 67 g/m

- ☐ Impedance: $50 \pm 2 \Omega$
- ☐ Nominal capacitance : 95 pF/m
- ☐ Minimum Bend radius : 50 mm

- ☐ Good resistance to aircraft fluids

Identification

- ☐ Color of Jacket : Brown
Green marking of the external sheath : "XF FR F **"

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of Manufacturing (ie. 02 = 2002)

Specification : ASNE 0293



①

②

③

④

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Type NSA 935344 XE

Filotex®

Application

High frequency interconnections.

PRODUCT REFERENCES

NSA 935344 XE

Electrical Characteristics

□ Impedance at 200 Mhz	: $50 \pm 2 \Omega$
□ Nominal capacitance	: 95 pF/m
□ Nominal attenuation at 900 Mhz	: 0.8 dB/m
□ Maximum Operating frequency	: 1.8 Ghz
□ Voltage rating	: 900 Volts RMS.
□ Maximum rating temperature	: 250°C (ambient + rise)

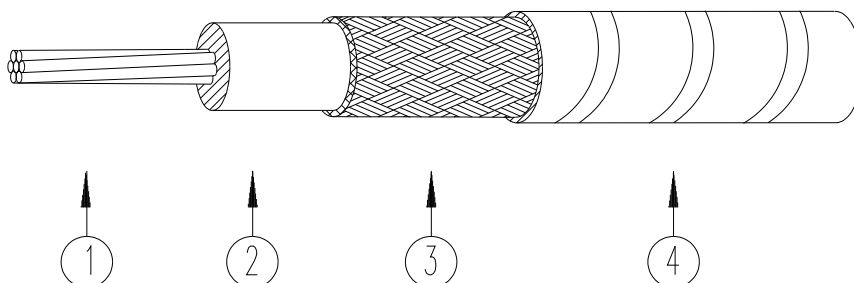
CONSTRUCTION

- ① CONDUCTOR
7 x 0.17mm silver plated
copper covered steel.
Diameter 0.51 mm
- ② INSULATION
Extruded PTFE
Diameter 1.52 ± 0.07 mm
- ③ SHIELD
single braid of silver plated
copper
Stand diameter 0.10 mm
- ④ JACKET
White PTFE tapes
Diameter 2.70 ± 0.10 mm

Physical Characteristics

- Nominal weight : 18 g/m
- Marking : XE ** FR F
- ** Year of manufacturing

Type : NSA 935344 - XE



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Filotex®

ASNE 0349 WC Triaxial Cable 50 Ω - 250°C PTFE OD : 6.40 mm

Applications

- ❑ High Frequency Transmission Cable,
- ❑ Recommended for use of :
 - simultaneous transmission of 2 signals within the same cable,
 - presence of multiple screens raised at different potentials on equipment to be connected,
 - need of an enhanced screen effectiveness.

PRODUCT REFERENCES

ET 17 412

Main data

- ❑ Operating temperature : -60°C to +250°C,
- ❑ Good resistance to aircraft fluids,
- ❑ Flame and fire retardant : IEC 332-1 and NFC 32070 / C1,
- ❑ Easy solder connection,
- ❑ Nominal weight : 105 g / m

CONSTRUCTION

CORE : KX23

① CONDUCTOR

7x0.34 mm Silver plated
Copper
Diameter 1.02 mm

② DIELECTRIC

Extruded PTFE
Diameter 2.95 ± 0.15 mm

③ SCREEN Single braid :

0.16 mm Silver plated copper

④ INNER JACKET

PTFE Tapes, $\varnothing = 4.5$ mm

⑤ SCREEN Single braid :

0.20 mm Silver plated copper

⑥ OUTER JACKET

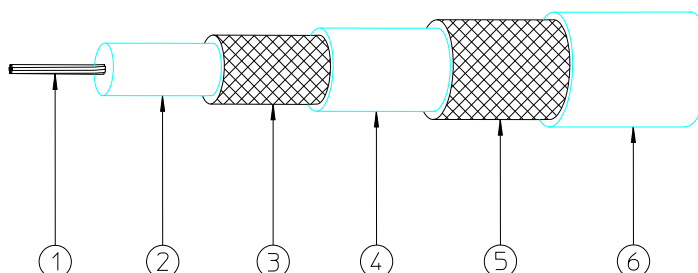
PTFE Tapes + Glass fiber
 $\varnothing = 6.40 \pm 0.30$ mm

Specification

- ❑ ASNE 0349 WC

Electrical data

- ❑ Operating voltage : 1400 V rms,
- ❑ Impedance : 50 Ω at 200 MHz,
- ❑ Nominal attenuation : 19 dB / 100 m at 200 MHz,
- ❑ Relative velocity of propagation : 69,5%,
- ❑ Nom. capacity between conductor and 2 screens : 95 pF / m



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Part 5

Data bus and high speed transmission cables

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DATA BUS CABLE

M17 / 176-00002

77 Ohms

Filotex[®]

PRODUCT REFERENCES

M17/176-00002

Applications

- Bus lines for multiplexed transmissions. The cable is constructed with 2 cores and 2 fillers twisted together.

Temperature rating

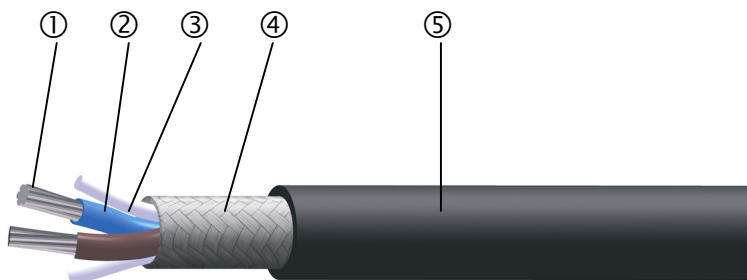
- Operating temperature : - 65°C up to +200°C.

Identification

- 1 blue core and 1 white core.

CONSTRUCTION

- ① CONDUCTOR
Stranded, high strength silver plated copper alloy
- ② INSULATION
Extruded PTFE
- ③ FILLERS
Extruded PTFE
- ④ SCREEN
High strength silver plated copper alloy braid
Ø = 3.90 +/- 0.15 mm
- ⑤ SHEATH
PFA
Color : translucent blue





Impedance	Max. op. temp.	Dielectric	Nexans reference	CONDUCTOR		Dielectric Ø mm	BRAIDS		SHEATH		Av. weight kg/km
				Composition n x Ø mm	Nature		Nb	Nature	Nature	Overall Ø mm	
77 Ω	200°C	PTFE	090612	19 x 0.13	SPC alloy	1.07	1	SPC alloy	PFA	3.27 ± 0.127	26

Nexans reference	Max. op. frequency GHz	Nominal capacitance pF/m	Attenuation at 1 MHz (db/m)	Continuous working voltage
090612	1	65	4.6	750



ABS 1503 KD 24 Shielded Quad 24 AWG 100 OHMS

Filotex[®]

PRODUCT REFERENCES

ET 2PF870

CONSTRUCTION

① 19 x 0.13 mm Silver Copper stranded 24 AWG
FEP Insulated
Ø = 1.40 mm +/- 0.05 mm
Color : Blue-Red-Yellow-Green

② Natural FEP Filler

③ Wrapping Tape

④ 0.10 mm Silver Copper Braid
Ø = 3.90 +/- 0.15 mm

⑤ Clear Blue FEP Jacket for UV laser marking
Ø = 4.40 +/- 0.20 mm

Weight : 40,28 g/m nominal

Applications

- High speed data transmission – Ethernet networks – 100 Mbit/s and in-flight entertainment application.

Temperature rating

- Operating temperature : - 55°C up to +125°C
- Storage temperature : -55°C up to +200°C.

Identification

Inkjet marking pitch length ≈ 300 mm.

Pitch length between the two text marking ≈ 150 mm

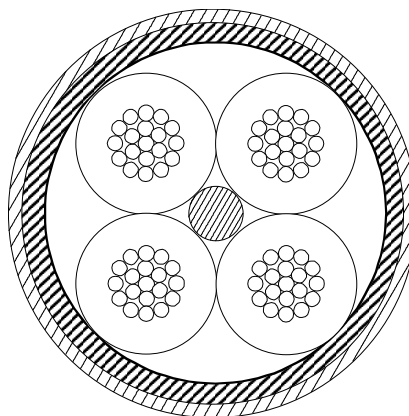
AB KD 24 FR F " year of manufacturing "

Electrical characteristics :

- Loop resistance : 19.2 Ohms/100 m at 20°C (Max).
- Insulation resistance : 1500 M.ohms / Km at 20°C.
- Impedance : 100 ± 15 Ohms from 1 to 100 MHz
- Velocity of propagation ≥ 70 %
- Next $> 68 - 15 \times \log (F)$ dB from 1 to 100 MHz
- Attenuation Nominal Values :

2.1 dB/100 m at	1	MHz
4.1 dB/100 m at	4	MHz
6.5 dB/100 m at	10	MHz
8.2 dB/100 m at	16	MHz
9.3 dB/100 m at	20	MHz
11.7 dB/100 m at	31.25	MHz
17 dB/100 m at	62.5	MHz
22 dB/100 m at	100	MHz

SPECIFICATION ABS 1503







STUDY 124960

Bus lines for multiplexed transmission

Filotex®

PRODUCT REFERENCES

ET 124960

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 26
Cross section: 0.15 mm²
19 x 0.10 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 0.80 ± 0.05 mm
- ③ LAY UP
Nominal diameter: 1.60 mm
- ④ SHIELD
Silver plated copper 10/100
Diameter < 2.00 mm
- ⑤ JACKET
UV laser markable ETFE
OD 2.50 ± 0.10 mm

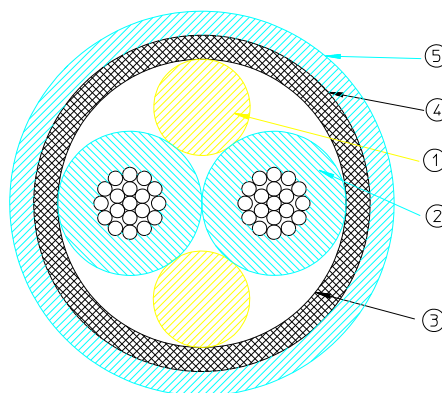
Electrical characteristics

- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Nominal mutual capacitance : 65 pF/m
- ❑ Nominal capacitance between 1 core and shield : 110 pF/m
- ❑ Nominal capacitance between cores and shield : 180 pF/m
- ❑ Nominal attenuation at 1 MHz : 3.5 dB/100 m
- ❑ Linear resistance: $\leq 146 \text{ ohms/Km}$.
- ❑ Insulation resistance: $\geq 1500 \text{ Mohms . Km}$.
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (mΩ/m):

DC current :	50
1MHz	50
10MHz	50
30 MHz	100

Physical characteristics

- ❑ Nominal weight : 14.5 g/m
- ❑ Maximum weight : 19 g/m.
- ❑ Minimum static bending radius : 15 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to +150°C
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue



Marking

- ❑ "FILOTEX FRANCE ET 124960-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(Nexans reference: ETUDE 124960-01)
- ❑ Blue marking for the branch line
(Nexans reference: ETUDE 124960-02)

Technical requirements and control conditions: according to pr EN 3375



STUDY 124961

Bus lines for multiplexed transmission

Filotex®

PRODUCT REFERENCES

ET 124961

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm
- ③ LAY UP
Nominal diameter: 2.10 mm
- ④ SHIELD
Silver plated copper 10/100
- ⑤ SHIELD
Silver plated copper 10/100
Diameter < 3.50 mm
- ⑥ JACKET
UV laser markable ETFE
OD 3.65 ± 0.25 mm

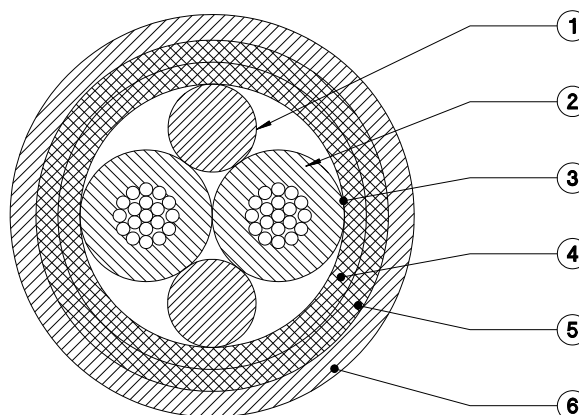
Electrical characteristics

- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Nominal mutual capacitance : 65 pF/m
- ❑ Nominal capacitance between 1 core and shield : 110 pF/m
- ❑ Nominal capacitance between cores and shield : 180 pF/m
- ❑ Nominal attenuation at 1 MHz : 2.7 dB/100 m
- ❑ Linear resistance: $\leq 109 \text{ ohms/Km}$.
- ❑ Insulation resistance: $\geq 1500 \text{ Mohms} \cdot \text{Km}$.
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (Ω/m):

DC current :	$15 \cdot 10^{-3}$
1MHz	$5 \cdot 10^{-3}$
10MHz	$5 \cdot 10^{-3}$
30 MHz	$10 \cdot 10^{-3}$

Physical characteristics

- ❑ Nominal weight : 28 g/m
- ❑ Maximum weight : 37 g/m.
- ❑ Minimum static bending radius : 20 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to +150°C
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue



Marking

- ❑ "FILOTEX FRANCE ET 124961-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(EN 3375 – 004 C01, Nexans reference: ETUDE 124961-01)
- ❑ Blue marking for the branch line
(EN 3375 – 004 C02, Nexans reference: ETUDE 124961-02)

Technical requirements and control conditions: according to pr EN 3375



Filotex®

STUDY 96770
ASNE 0479 – WJ
EN 3375-004B

Bus lines for multiplexed transmission

PRODUCT REFERENCES

ET 96770

ET 96770-01

ET 96770-02

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm
- ③ LAY UP
Nominal diameter: 2.10 mm
- ④ SHIELD
Tin plated copper 10/100
- ⑤ SHIELD
Tin plated copper 10/100
Diameter < 3.50 mm
- ⑥ JACKET
FEP Jacket
OD 3.65 ± 0.25 mm

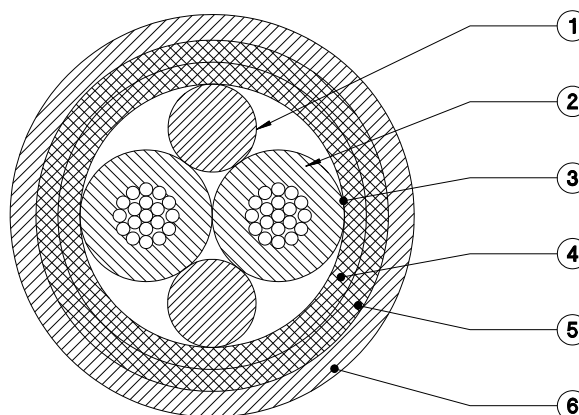
Electrical characteristics

- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Nominal mutual capacitance : 65 pF/m
- ❑ Nominal capacitance between 1 core and shield : 110 pF/m
- ❑ Nominal capacitance between cores and shield : 180 pF/m
- ❑ Nominal attenuation at 1 MHz : 2.7 dB/100 m
- ❑ Linear resistance: $\leq 109 \text{ ohms/Km.}$
- ❑ Insulation resistance: $\geq 1500 \text{ Mohms . Km.}$
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (Ω/m):

DC current	$15 \cdot 10^{-3}$
1MHz	$5 \cdot 10^{-3}$
10MHz	$5 \cdot 10^{-3}$
30 MHz	$10 \cdot 10^{-3}$

Physical characteristics

- ❑ Nominal weight : 28 g/m
- ❑ Maximum weight : 37 g/m.
- ❑ Minimum static bending radius : 20 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to +150°C
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue



Marking

- ❑ "FILOTEX FRANCE ET 96770-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(EN 3375 – 004 B01, Nexans reference: ETUDE 96770-01)
- ❑ Blue marking for the branch line
(EN 3375 – 004 B02, Nexans reference: ETUDE 96770-02)

Technical requirements and control conditions: according to pr EN 3375



PAN 6421 ZA 002 CABLE, SPECIAL ELECTRIC (MIL-STD-1553B DATA BUS)

PRODUCT REFERENCES

PAN 6421 ZA 002
ET 65529

CONSTRUCTION

- ① CORES :
Stranded conductor :
19 x 0.118 Silver plated copper
Alloy
Insulation Polyimide/FEP Tape
plus dispersion

Diameter = 1.22 mm
Maxi = 1.26 mm
- ② P.T.F.E. fillers
- ③ Inner screen 0.08 mm Silver
plated copper (Braid)
- ④ Outer screen 0.08 mm Silver
plated copper (Braid)
- ⑤ Extruded FEP Jacket
0.20 mm Minimum Wall
Thickness
Diameter min. = 3.15 mm
Diameter max. = 3.80 mm
Max. Weight = 29.0 g/m

Physical Characteristics

- ❑ Operating Temperature: -65°C to +150°C
- ❑ Maximal weight : 29 Kg./Km.
- ❑ Good resistance to aircraft fluids

Electrical Characteristics

- ❑ Voltage Rating: 600 Volts RMS.

Characteristics Impedance

- ❑ $77 \Omega \pm 3 \Omega$

Mutual Capacitance

- ❑ 98.4 pF/m

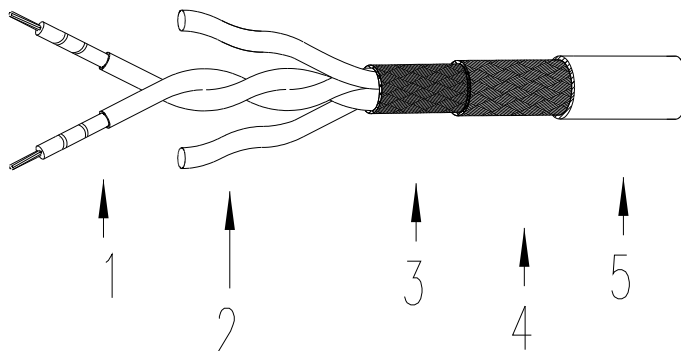
Attenuation

- ❑ 4.92 dB/100m. Max.

Identification

- ❑ Color of cores : Red, Blue
- ❑ Color of Jacket : Blue
- ❑ Black Marking of the external sheath :
"PAN 6421 ZA 002 FR F ***"
❑ ** = Year of manufacturing

Specification : PANAIA 75.6421
SP-P-99301-00-P



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Filotex®

ASNE 0259 HE 24 BUS CABLE

AWG 24 - Single braid - Polyimide Jacket

PRODUCT REFERENCES

ASNE 0259 HE 24
ET 63247

CONSTRUCTION

① CORES

2 twisted cores AWG 24:
Stranded conductor :
19 x 0.12 mm Silver plated
high strength copper alloy
Extruded PTFE
Ø 1.97 ± 0.03 mm

② SHIELD

0.10 mm Nickel plated
copper braid
Covering ≥ 62%

③ JACKET

Polyimide tape(s)

Maxi. Diameter = 4.50 mm

Characteristics

- Voltage Rating : 600 Volts RMS
- Operating Temperature : -55°C to +150°C
- Good Resistance to aircraft fluids.
- Non flammable.
- Nominal weight : 27 g/m

Characteristics impedance

- 125 Ω ±10%

- Attenuation at 500 KHz : 2.5 dB/100m
- Attenuation at 1 MHz : 3.1 dB/100m
- Mutual capacitance : 40 pF/m

Electrical characteristics

- Voltage withstanding
 - between conductors : 1500 volts
 - between conductors and shield : 1500 volts
- Maximum linear resistance of conductor at 20°C : 97.2 Ω/Km

Identification : 1 core white and 1 core brown

Natural jacket

Specification : ASNE 0259



①

②

③

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Filotex®

STUDY 69654 BUS CABLE

AWG 24 - Single braid – Polyimide Jacket

Applications

- Bus Line

PRODUCT REFERENCES

ET 69654
ET 132158 (FEP Jacket)

CONSTRUCTION

① CORES

CONDUCTOR

19 x 0,127 mm

Silver Plated Copper Alloy

INSULATION

Extruded PTFE

Diameter : 1.85 ± 0.13 mm

Assembly 2 cores

② SHIELD

0.10 mm Tin Plated

Copper Braid (Kr : 68%)

③ JACKET

Polyimide Tape

Diameter = 4.45 ± 0.38 mm

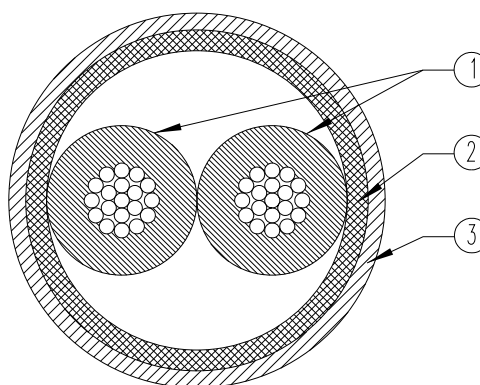
Main data

- Voltage Rating : 600 Volts RMS.
- Low Operating Temperature : -55°C
- High Operating Temperature : +150°C
- Nominal Weight : 27 g/m
- Impedance at 1 MHz : $125 \Omega \pm 10\%$
- Capacitance : 40 ± 6.5 pF/m
- Voltage withstanding
 - between conductors : 1500 volts
 - between conductors and shield : 1500 volts
 - Spark test of the jacket : 3500 volts (Impulse)
- Insulation resistance : ≥ 1500 M Ω .Km
- Good resistance to aircraft fluids

Identification

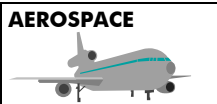
- Color of cores : White - Brown
- Color of Jacket : Natural

Specification : Honeywell N° P7500579 (12 Jan.1988)



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STUDY 124843 ASNE 0849 HJ 26

Twinaxial Cable High immunity

Filotex®

PRODUCT REFERENCES

ASNE 0849 HJ 26
ET 124843

CONSTRUCTION

① 2 CORES

Stranded conductors :
19 x 0.100 Nickel Plated
High Strength Copper Alloy
Insulation:
Polyimide tape(s)
PTFE Topcoat
Dia. max. = 0.84 mm

SCREEN

- ② 0.08 mm Nickel plated
copper braid.
- ③ High immunity Tapes
Nominal dia. = 2.06 mm
- ④ 0.10 mm Nickel plated
copper braid.
Nominal dia. = 2.50 mm

JACKET

- ⑤ FEP
Maximum Diameter = 3 mm
Maximum Weight = 22 g/m

Applications

- ❑ General Electronic Wiring.

Main data

- ❑ Voltage Rating: 600 Volts RMS
- ❑ Low Operating Temperature: -65°C
- ❑ High Operating Temperature: +200°C
- ❑ Transfer Impedance:

DC	$28.10^{-3} \Omega/m$
10 kHz	$8,7.10^{-3} \Omega/m$
100 kHz	$0,85.10^{-3} \Omega/m$
2 MHz	$0,8.10^{-5} \Omega/m$

- ❑ Impedance max. : 75 Ω
- ❑ Minimum Bend radius : 30 mm
- ❑ Good resistance to aircraft fluids

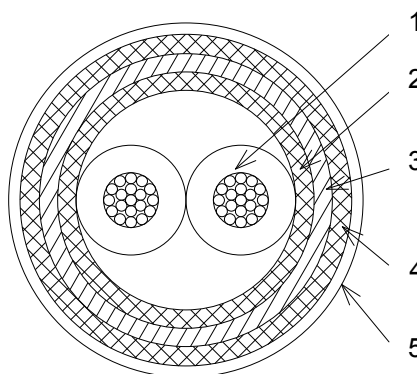
Identification

- ❑ Color of cores : Light Blue, Red
- ❑ Color of Jacket : White

Black marking of the external sheath : "HJ 26 FR F **"

FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of Manufacturing (ie. 05 = 2005)

Specification : ASNE 0849



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STUDY 61333

Bus lines for multiplexed transmission

Filotex®

PRODUCT REFERENCES

ET 61333

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 22
Cross section: 0.38 mm²
19 x 0.16 Silver plated copper
Insulation : extruded PTFE
Diameter = 1.50 ± 0.03 mm
Lay up:
Nominal diameter: 3.00 mm
- ③ SHIELD
Silver plated copper 12/100
- ④ TAPE
High permeability alloy
- ⑤ SHIELD
Silver plated copper 12/100
Nominal diameter: 4.06 mm
- ⑥ JACKET
Polyimide PTFE
OD = 4.55 ± 0.25 mm

Electrical characteristics

- ❑ Characteristic impedance : $75 \pm 5 \Omega$
- ❑ Nominal mutual capacitance : $65 \pm 5 \text{ pF/m}$
- ❑ Capacitance unbalance: $\leq 5\%$
- ❑ Nominal attenuation at 1 MHz : 2.6 dB/100 m
at 10 MHz : 10 dB/100 m
- ❑ Linear resistance: $\leq 50.2 \text{ ohms/Km}$
- ❑ Insulation resistance under 500 volts: $> 5000 \text{ Mohms} \cdot \text{Km}$.
- ❑ Voltage withstanding:
between conductors: 2000 volts RMS
between conductors and shield: 2000 volts RMS
- ❑ Jacket spark test: 500 Volts
- ❑ Voltage rating: 600 Volts
- ❑ Transfer impedance (Ω/m):
at 1 MHz: $2.5 \cdot 10^{-5}$

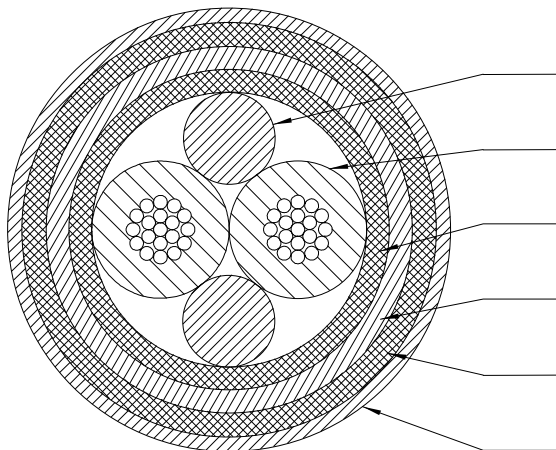
Physical characteristics

- ❑ Nominal weight : 55 g/m
- ❑ Maximum weight : 55.4 g/m.
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to $+200^\circ\text{C}$
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue

These cables are approved by the Defense Ministry under letters :

N°8981/STTE/CTG (10-09-86)

Registered at the B.N.Aé : N° 6415 401



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ASNE 0811 - WY

Bus lines for multiplexed transmission

Filotex®

Use for Bus system MIL STD 1553

PRODUCT REFERENCES

ASNE 0811 WY
ET 69899-01
ET 69899-02

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 26
Cross section: 0.15 mm²
19 x 0.10 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 0.80 ± 0.05 mm
- ③ LAY UP
Nominal diameter: 1.60 mm
- ④ SHIELD
Silver plated copper 10/100
Diameter < 2.00 mm
- ⑤ JACKET
FEP
OD 2.50 ± 0.10 mm

Electrical characteristics

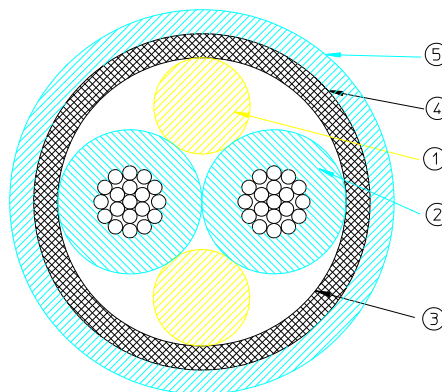
- Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 3.5 dB/100 m
- Linear resistance: $\leq 146 \text{ ohms/Km.}$
- Insulation resistance: $\geq 1500 \text{ Mohms . Km.}$
- Voltage withstanding:
between conductors: 1000 volts
between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (mΩ/m):

DC current :	$50 \cdot 10^{-3}$
1MHz	$50 \cdot 10^{-3}$
10MHz	$50 \cdot 10^{-3}$
30 MHz	$100 \cdot 10^{-3}$

Physical characteristics

- Nominal weight : 14.5 g/m
- Maximum weight : 19 g/m.
- Minimum static bending radius : 15 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color : white
- Color of cores: white, blue

Specification : ASNE 0811



Marking

- ❑ "FILOTEX FRANCE ET 69899-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(Nexans reference: ETUDE 69899-01)
- ❑ Blue marking for the branch line
(Nexans reference: ETUDE 69899-02)



Filotex®

PRODUCT REFERENCES

ABS 0386 WF
ET 96897

CONSTRUCTION

- ① **2 CORES**
19 x 0.12 mm Nickel plated copper alloy.
PTFE insulation.
- ② **ASSEMBLY**
2 cores twisted with fiber glass fillers
- ③ **SCREEN**
Nickel coated copper braid
(Strand Ø 0.08 mm)
- ④ **JACKET**
Polyimide tapes

Applications

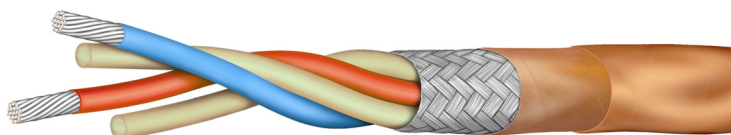
- ❑ Data bus cable.

Main data

- ❑ Voltage rating: 600 vrms.
- ❑ Operating temperature: -55°C/+200°C
- ❑ Minimum bend radius.: 25 mm.
- ❑ Characteristic impedance: 100 ± 10 Ohms at 5 MHz.
- ❑ Attenuation at 1 MHz: 0.03 dB/m.
at 5 MHz: 0.06 dB/m.
at 10 Mhz: 0.12 dB/m
- ❑ Maximum capacitance: 60 pF/m
- ❑ Dimensions and weight: see table on reverse of this data sheet.

Identification

- ❑ 1 core : Light blue with green marking 'WF 24 FR F **'
- ❑ 1 core : Red with white marking 'WF 24 FR F **'
- ❑ Amber color jacket : (Marking tape under jacket)
- ❑ Marking : 'WF 24 FR F **' + dash. (**) = Year code.



DIMENSIONS AND WEIGHT

Reference	US	Conductor				Insulation		Braid		Finish cable		
		Composition	Diameter		Ohmic resistance at 20°C (Ohms/Km)	Diameter				Overall diameter		Weight
			(N x mm)	(mm)		(mm)	(mm)	Østr and (mm)	Ø Nom. (mm)	(mm)	(Kg/Km)	
FILOTEX	AWG		Nom.	Max.	Max.	Nom.	Max.			Nom.	Max.	Max.
Study. 96897	24	19 x 0.12	0.59		117.5	1.40	1.50	0.08	3.12	3.30	3.50	23.4



Filotex®

STUDY 69794 EN 3375-004 C - WJ Bus lines for multiplexed transmission

PRODUCT REFERENCES

ET 69794

ET 69794-01

ET 69794-02

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm
- ③ LAY UP
Nominal diameter: 2.10 mm
- ④ SHIELD
Silver plated copper 10/100
- ⑤ SHIELD
Silver plated copper 10/100
Diameter < 3.50 mm
- ⑥ JACKET
FEP Jacket
OD 3.65 ± 0.25 mm

Use for Bus System MIL STD 1553

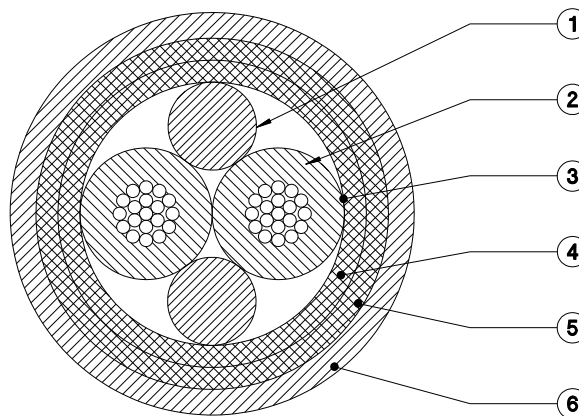
Electrical characteristics

- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Nominal mutual capacitance : 65 pF/m
- ❑ Nominal capacitance between 1 core and shield : 110 pF/m
- ❑ Nominal capacitance between cores and shield : 180 pF/m
- ❑ Nominal attenuation at 1 MHz : 2.7 dB/100 m
- ❑ Linear resistance: $\leq 109 \text{ ohms/Km.}$
- ❑ Insulation resistance: $\geq 1500 \text{ Mohms . Km.}$
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (Ω/m):

DC current	$15 \cdot 10^{-3}$
1MHz	$5 \cdot 10^{-3}$
10MHz	$5 \cdot 10^{-3}$
30 MHz	$10 \cdot 10^{-3}$

Physical characteristics

- ❑ Nominal weight : 28 g/m
- ❑ Maximum weight : 37 g/m.
- ❑ Minimum static bending radius : 20 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to +200°C
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue



Marking

- ❑ "FILOTEX FRANCE ET 69794-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(EN 3375 – 004 C01, Nexans reference: ETUDE 69794-01)
- ❑ Blue marking for the branch line
(EN 3375 – 004 C02, Nexans reference: ETUDE 69794-02)

Technical requirements and control conditions: according to pr EN 3375



STUDY 69342

EN 3375-005 C - WV

Bus lines for multiplexed transmission

Filotex®

Use for Bus System MIL STD 1553

Electrical characteristics

- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Nominal mutual capacitance : 65 pF/m
- ❑ Nominal capacitance between 1 core and shield : 110 pF/m
- ❑ Nominal capacitance between cores and shield : 180 pF/m
- ❑ Nominal attenuation at 1 MHz : 2.7 dB/100 m
- ❑ Linear resistance: ≤ 109 ohms/Km.
- ❑ Insulation resistance: ≥ 1500 Mohms . Km.
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (Ω /m):

DC current	$15 \cdot 10^{-3}$
1MHz	$2.5 \cdot 10^{-5}$
10MHz	$5 \cdot 10^{-5}$
30 MHz	$1 \cdot 10^{-4}$

Physical characteristics

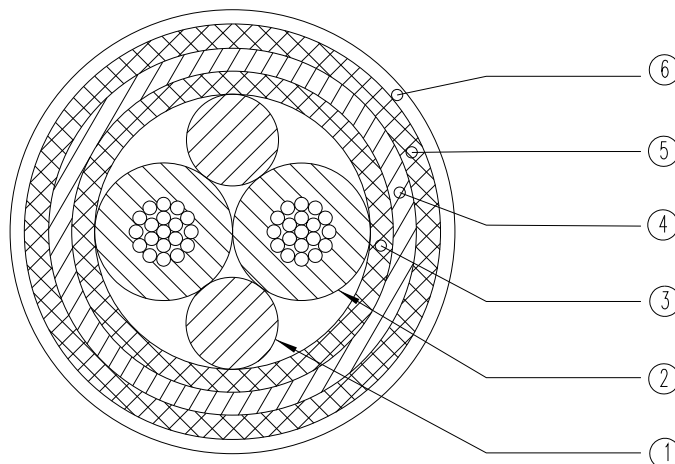
- ❑ Nominal weight : 34 g/m
- ❑ Maximum weight : 43.3 g/m.
- ❑ Minimum static bending radius : 40 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to $+200^{\circ}\text{C}$
- ❑ Outer jacket color : white
- ❑ Color of cores: white, blue

PRODUCT REFERENCES

ET 69342-01
ET 69342-02

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm^2
19 x 0.12 Silver plated
copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = $1.05 \pm 0.10 \text{ mm}$
LAY UP
Nominal diameter: 2.10 mm
- ③ SHIELD
Silver plated copper 10/100
- ④ HIGH IMMUNITY TAPE
- ⑤ SHIELD
Silver plated copper 10/100
Diameter < 3.75 mm
- ⑥ JACKET
FEP Jacket
OD $3.85 \pm 0.25 \text{ mm}$



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Marking

- ❑ "FILOTEX FRANCE ET 69342-****"
(**) = Year of manufacturing
- ❑ Red marking for the main line
(EN 3375 – 005 C01, Nexans reference: ETUDE 69342-01)
- ❑ Blue marking for the branch line
(EN 3375 – 005 C02, Nexans reference: ETUDE 69342-02)

Technical requirements and control conditions: according to pr EN 3375



ASNE0290 XM 24

EN 3375-006 D

BUS PAIR , High temperature

Filotex®

PRODUCT REFERENCES

ASNE 0290 XM 24

CONSTRUCTION

① 2 CORES

Stranded conductors :
19 x 0.12 Nickel Plated
High Strength Copper
Alloy
Insulation:
Extruded coloured PTFE
Dia. = 1.13 to 1.33 mm

SCREEN

② 0.08 mm Nickel plated
copper braid.
Kr = 0.65 min.

JACKET

③ Polyimide Tapes

Maximum Diameter = 3.10 mm
Maximum Weight = 15 g/m

Applications

- ❑ General Electronic Wiring.
- ❑ Communication Data Bus, compatible RS 422

Main data

- ❑ Voltage Rating: 600 Volts RMS
- ❑ Low Operating Temperature: -55°C
- ❑ High Operating Temperature: +200°C
- ❑ Minimum Bend radius : 30 mm
- ❑ Good resistance to aircraft fluids

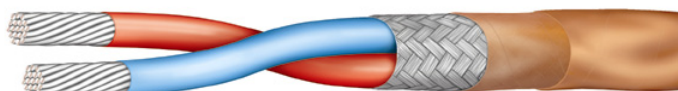
Electrical data

- ❑ Impedance : $(78 \pm 7) \Omega$ @ 200 MHz
- ❑ Lineic capacitance : $64 \pm 10 \%$ pF/m
- ❑ Linear attenuation (max) :
 - 0.035 dB/m @ 1 MHz
 - 0.15 dB/m @ 10 MHz

Identification

- ❑ Color of cores : Light Blue, Red
- ❑ Color of Jacket : Natural
Marking : "XM 24 *-F"
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
* = Year of Manufacturing Code (ie. 05 = 2005)

Specification : ASNE0290 – EN 3375-006



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Filotex®

ECS0700 EN 3375-007 C - WW AWG 26 Bus line for multiplexed transmission

PRODUCT REFERENCES

ET 132041

CONSTRUCTION

- ① 2 FILLERS
PTFE
- ② 2 CORES
1 core : AWG 26
Cross section: 0.15 mm²
19 x 0.10 Silver plated
copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 0.80 ± 0.05 mm
- ③ LAY UP
Nominal diameter: 1.60 mm
- ④ SHIELD
Silver plated copper 8/100
Diameter < 2.00 mm
- ⑤ SHIELD
Silver plated copper 8/100
Diameter < 2.40 mm
- ⑥ JACKET
FEP Jacket
OD 2.90 ± 0.10 mm

Electrical characteristics

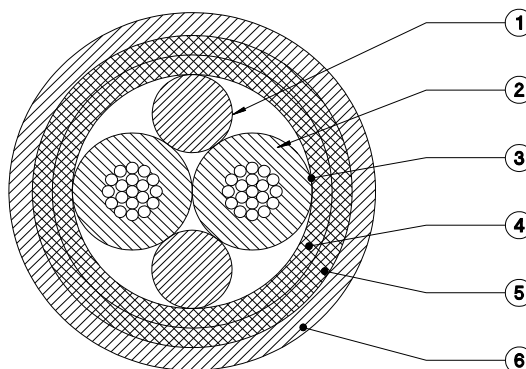
- ❑ Characteristic impedance at 1 MHz : $77 \pm 7 \Omega$
- ❑ Maximum mutual capacitance : 75 pF/m
- ❑ Maximum attenuation at 1 MHz : 4.1 dB/100 m
- ❑ Linear resistance: $\leq 153 \text{ ohms/Km.}$
- ❑ Insulation resistance: $\geq 1500 \text{ Mohms . Km.}$
- ❑ Voltage withstanding:
 - between conductors: 1000 volts
 - between conductors and shield: 1000 volts
- ❑ Jacket spark test: 1000 Volts
- ❑ Voltage rating : 250 Volts
- ❑ Maximum transfer impedance (mΩ/m):

DC current	30
1MHz	15
10MHz	15
30 MHz	15

Physical characteristics

- ❑ Maximum weight : 21 g/m.
- ❑ Minimum static bending radius : 20 mm
- ❑ Good resistance to aircraft fluids
- ❑ Temperature rating: -65°C to +200°C
- ❑ Outer jacket color : white
- ❑ Color of cores : white, blue

Specification : ECS0700 – EN 3375-007



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Filotex®

**EN 4608-005B 002
GPB24**

**Fireproof Cable for Data Transmission
Two-cores Twisted Screened and Jacketed**

Applications

- Use in the onboard electrical systems of aircraft.

Electrical Characteristics

- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Operating frequency : up to 125 KHz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance – 15 mn : > 10 kΩ.
- Very good resistance to Aircraft Fluids.
- Capacitance : < 85 pF/m at 100 KHz
- Impedance : 120 ± 20% Ω at 100 KHz
- Transfer impedance : < 30 mΩ at 100 KHz
- Attenuation : < 1.6 dB/100 m at 100 KHz

Identification

- Core identification Colours:
Two cores: White with a helical red / blue stripe
Marking : EN DW A 24 FRF**
- Jacket identification colour: White with narrow red stripe
Marking : EN GPB 24 FRF**
FR = Country of Origin (FR = France)
F = Filotex® Manufacturer
** = Year of Manufacturing (ie. 05 = 2005)

PRODUCT REFERENCES

**EN 4608-005B 002
EN 2346-005 (core)**

CONSTRUCTION

CORE

Conductor

- ① Stranded conductor :
19 x 0.120 Nickel clad copper alloy

INSULATION

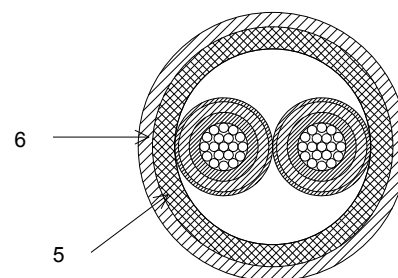
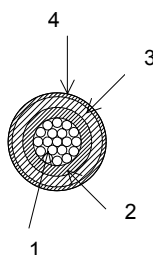
- ② Fire resistant insulation
- ③ Polyimide Tape
- ④ PTFE Tape
OD 1.20 to 1.65 mm

SCREEN

- ⑤ 0.12 Nickel plated copper braid

JACKET

- ⑥ UV PTFE Tape(s)



Specification : EN 4608-005

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- 241 -

DIMENSIONS AND WEIGHT

REFERENCE	Size Code	AWG	Finished Cable			
			No of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)	Weight (g/m)
				Max.	Max.	Max.
EN 4608-005B 002	002	24	2	135	4.00	27.5

Part 6

Special cables

140 – 146 rue E. Delacroix / BP 1
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Fax : + 33 1 69 42 05 70





Filotex®

STUDY 124401

Low Noise Screened Pair Cable

Transmission Cable 260 °C

PRODUCT REFERENCES

ET 124401

CONSTRUCTION

- ① 2 CORES :
Stranded conductor :
19 x 0.203 Nickel plated copper alloy
Insulation:
Extruded PTFE
Semi-conductive tape
Diameter = 1.78 mm
- ② GLASS FIBER FILLERS
- ③ SEMI-CONDUCTIVE TAPE
Diameter = 3.74 mm
- ④ SHIELD
0.12 mm Nickel plated copper braid
91% (US) minimum coverage
Diameter = 4.22 mm
INNER JACKET
- ⑤ Polyimide tape(s)
51% minimum overlap
- ⑥ SHIELD
0.12 mm Nickel plated copper braid
91% (US) minimum coverage
Diameter = 4.83 mm
- ⑦ OUTER JACKET
Polyimide tape(s)
PTFE tape(s)
51% minimum overlap
OD = 5.20 ± 0.20 mm

Applications

- ❑ General Electronic Wiring.

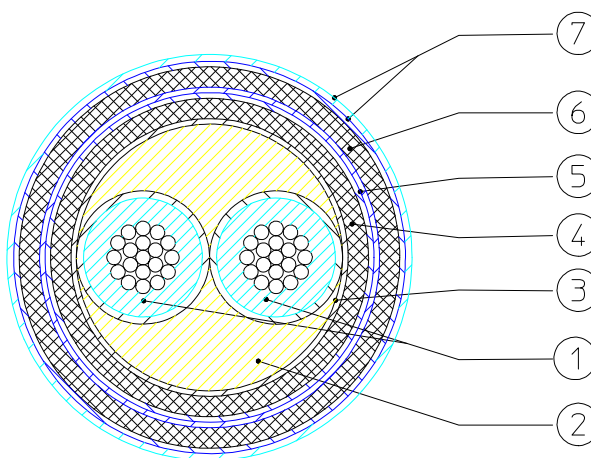
Main data

- ❑ Voltage Rating: 600 Volts RMS
- ❑ Operating Temperature: -54 to +260°C
- ❑ Voltage withstanding: - Insulation : 2000 V RMS
 - Jacket : 5000 V Impulse
- ❑ Insulation resistance: > 10¹² Ω.m (Core/Core and Core/Screen)
- ❑ Capacitance 100 Pf/m (between cores)
 200 Pf/m (between core and screen)
- ❑ Triboelectrical noise
 from 30 to 90 Hz, displacement 2 mm pk-pk : < 0.15 pC
 from 20 to 50 Hz, displacement 5 mm pk-pk : < 1 pC
 at 2 Hz, displacement 40 mm pk-pk : < 10 pC
- ❑ Excellent chemical resistance
- ❑ Nominal weight: 68.9 g/m

Identification

- ❑ Color of cores : Red, Blue
- ❑ Color of Jacket : Black

FILOTEX® Study 124401



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NSA 935 306 YK

Low noise transmission cable 260°C

Filotex®

PRODUCT REFERENCES

**NSA 935 306 YK
ET 86891**

CONSTRUCTION

① 2 CORES CONDUCTOR

19 x 0.17 mm

Silver plated copper clad steel

INSULATION

Extruded PTFE 1.40 ± 0.05 mm

Semi-conductor tape

Diameter 1.58 mm nom.

② GLASS FIBER FILLERS

③ SEMI-CONDUCTOR TAPE

④ SHIELD

Nickel plated copper Ø 0.12 mm

Kr > 70%

JACKET

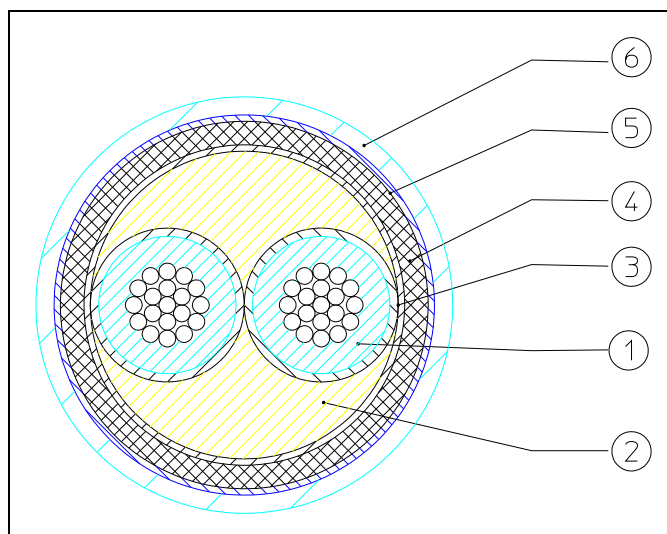
⑤ Polyimide tape(s)

⑥ PTFE tape(s)

OD max 4.35 mm

Characteristics:

- ❑ Operating temperature : -55 to +260°C
- ❑ Operating voltage : 600 V AC
- ❑ Voltage withstanding :
 - between cores 1500 V AC
 - between cores and shield 1500 V AC
- ❑ Insulation resistance : ≥ 1000 MΩ.Km
- ❑ Capacitance 100 Pf/m (between cores)
 - 200 Pf/m (between cores and shield)
- ❑ Triboelectrical noise
 - 2 Hz, 40 mm pk-pk : ≤ 10 pC
 - 5 to 50 Hz , 5 mm pk-pk : ≤ 1 pC
 - 10 Hz to 70 Hz , 2 mm pk-pk : ≤ 0.15 pC
- ❑ Nominal weight : 38.2 g/m
- ❑ Identification : 1 core Red - 1 core blue
- ❑ White jacket



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ESW 1404-022-006

Low noise transmission cable 260 °C

Filotex®

PRODUCT REFERENCES

ET 124763

ET 124762

CONSTRUCTION

① TWO CORES

Conductor :
19 x 0.20 mm
Nickel plated copper
Clad Steel
Semi-conductor Tape
Insulation :
PTFE Tape(s)
Diameter 1.80 ± 0.10 mm
Semi-conductor Tape
Nominal diameter : 1.95 mm

② Glass Fiber Fillers

③ Semi-conductor Tape

④ SHIELD

Nickel plated copper 12/100
Coverage factor > 85%

JACKET

⑤ Polyimide Tape(s)

⑥ PTFE Tape(s)
OD min. = 4.50 mm
OD max. = 4.80 mm

Main characteristics

- ❑ Operating temperature : -65 to +260°C
- ❑ Operating voltage : 600 V AC
- ❑ Voltage withstanding :
 - Between cores 1500 V AC
 - Between cores and shield 1500 V AC
- ❑ Insulation resistance $\geq 1000 \text{ M}\Omega\cdot\text{Km}$
- ❑ Electrical resistance at 20 °C $\leq 75.1 \text{ }\Omega/\text{Km}$
- ❑ Capacitance $310 \text{ pF/m} \pm 10\%$ (between core and shield)
- ❑ Unbalance 15 pF/m maximum
- ❑ Triboelectrical noise :
 - 5 to 50 Hz, 10mm pk-pk : $\leq 0.3 \text{ pC}$
 - 10 to 70 Hz, 2mm pk-pk : $\leq 0.3 \text{ pC}$
 - 50 to 100 Hz, 20g pk : $\leq 0.3 \text{ pC}$
- ❑ Maximum weight : 53 g/m

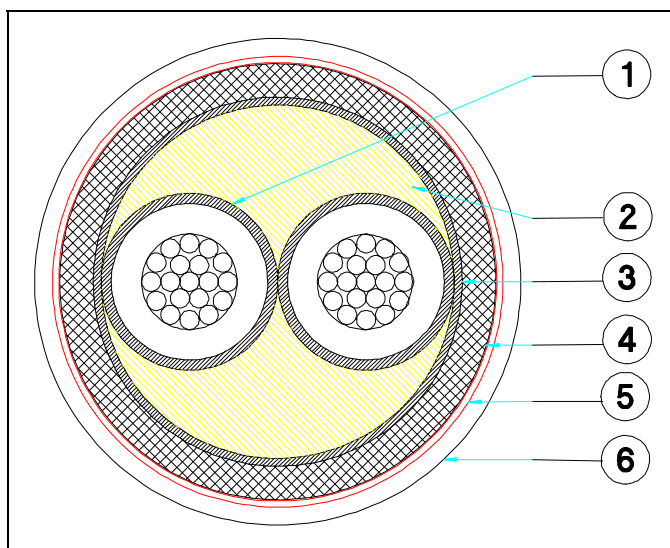
Identification :

- ❑ Cores : White - Blue
- Jacket : White
- Making

Wording : ESW1404-022-006-FX-FF-** 957.37.20.6999

(**) : Year of manufacturing

Specification : ESW1404-022-006
DSS-1747 / Study 124762



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ESW 1405-024-006

**Over screened and jacketed low microphony
Transmission cable 260°C**

Filotex®

PRODUCT REFERENCES

ET 132057

CONSTRUCTION

① TWO CORES

Conductor :
19 x 0.20 mm Nickel plated
copper Clad Steel
Diameter 0.99 ± 0.05 mm
Semi-conductor Tape
Insulation :
PTFE Tape(s)
Diameter 1.80 ± 0.10 mm
Semi-conductor Tape
Nominal diameter : 1.95 mm

② GLASS FIBER FILLERS

③ Semi-conductor Tape

④ 1st SHIELD

Nickel plated copper 12/100

INNER JACKET

⑤ Polyimide Tape(s)

⑥ 2nd SHIELD

Nickel plated copper 12/100

OUTER JACKET

⑦ Polyimide Tape(s)

PTFE Tape(s)
OD min. = 5.30 mm
OD max. = 5.70 mm

Main characteristics

- ❑ Operating temperature : -65°C to $+260^{\circ}\text{C}$ (Ambiant + Rise)
- ❑ Operating voltage : 600 Volts rms
- ❑ Volatage withstanding :
 - Between cores 1500 V rms
 - Between cores and shield 1500 V rms
 - Between shields 500 V DC
- ❑ Insulation resistance $\geq 1000 \text{ M}\Omega\cdot\text{Km}$
- ❑ Electrical resistance at $20^{\circ}\text{C} \leq 75.1 \Omega/\text{Km}$
- ❑ Capacitance $310 \text{ pF/m} \pm 10\%$ (between core and shield)
- ❑ Triboelectrical noise :
 - 5 to 50 Hz, 5mm pk-pk : $\leq 0.1 \text{ pC}$
 - 10 to 70 Hz, 2mm pk-pk : $\leq 0.1 \text{ pC}$
 - 50 to 100 Hz, 20g pk : $\leq 0.1 \text{ pC}$
- ❑ Maximum weight : 77 g/m

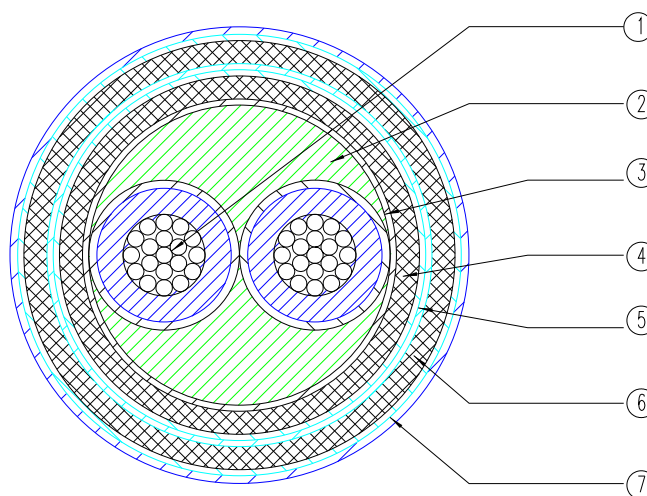
Identification : Cores : White - Blue

Jacket : White

Making : ESW1405-024-006-FX-FF-**

(**) : Year of manufacturing

Specification : ESW 1405-024-xxx



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Filotex®

LOW NOISE COAXIAL CABLES

CAS 85-22 P

CAS 250-20 P

CAS 250-20 SP

CAS 250-22

PRODUCT REFERENCES

**ET 87067, ET 87208
ET 87209, ET 87068**

CONSTRUCTION

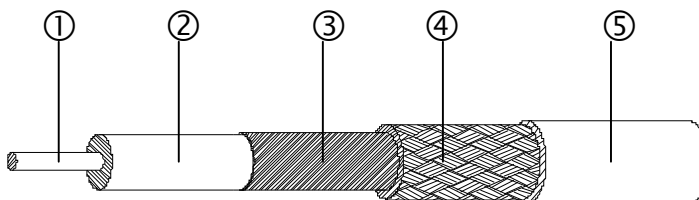
- ① CONDUCTOR
Stranded or solid in silver plated copper covered steel (SPCCS)
- ② DIELECTRIC
PE or PTFE
- ③ ANTIMICROPHONIC NOISE COATING
- ④ SCREEN
Single braid in bare copper or silver plated copper
- ⑤ SHEATH
PVC or PTFE Tape(s)
Color : green for standard version, other colors on request

Applications

- ❑ Cables designed for low frequency connections submitted to displacements and vibration during their operation.

Main characteristics

- ❑ Operating temperature : up to +200°C
- ❑ Operating voltage : 250 / 600 Volts RMS



DIMENSIONS AND WEIGHT

Dielectric	Designation	Nexans reference	CONDUCTOR			Dielectric Ø mm	BRAIDS		SHEATH	
			Composition n x Ø mm	Nature	Ø mm		Nb	Nature	Nature	Overall Ø mm
PE	CAS 85-22P	87067	1 x 0.30	SPCCS	0.30	1.10 ± 0.05	1	BC	PVC	2.15 ± 0.05
PTFE	CAS 250-20 P	87208	1 x 0.30	SPCCS	0.30	1.05 ± 0.05	1	SPC	PTFE	1.90 ± 0.10
PTFE	CAS 250-20 SP	87209	7 x 0.10	SPCCS	0.30	1.05 ± 0.05	1	SPC	PTFE	1.90 ± 0.10
PTFE	CAS 250-22	87068	1 x 0.30	SPCCS	0.30	0.98 ± 0.05	1	SPC	PTFE	2.15 ± 0.05

Designation	Nexans reference	Average Weight kg/km	Nominal capacitance pF/m	Velocity of propagation	Continuous working voltage	Triboelectric low noise level
CAS 85-22P	87067	8.0	95	70	600	<200 µvolts
CAS 250-20 P	87208	8.9	90	76	600	<200 µvolts
CAS 250-20 SP	87209	8.8	90	76	600	<200 µvolts
CAS 250-22	87068	11.6	90	76	250	<200 µvolts



MBBN 3320 YH +++ Cable electric, Nickel chromium/Nickel aluminium Jacketed, Shielded Twisted pair

PRODUCT REFERENCES

**MBBN 3320 YH +++
ET 96532, ET 96533**

CONSTRUCTION

- ① CONDUCTOR
Stranded conductor :
19 x 0.20 mm
Nickel Chromium for Size
006
or 19 x 0.15 mm
Nickel Chromium for Size
004
INSULATION
PTFE / Polyimide /PTFE Tapes
- ② CONDUCTOR
Stranded conductor :
19 x 0.20 mm
Nickel Aluminium for
Size 006
or 19 x 0.15 mm
Nickel Aluminium for
Size 004
INSULATION
PTFE / Polyimide /PTFE Tapes
- ③ SCREEN
Nickel plated Copper Braid
JACKET
- ④ Polyimide Tape
- ⑤ PTFE Tape

Electrical Characteristics

- Voltage rating : 600 Volts RMS

Thermal Characteristics

- Temperature rating : -55°C /+ 260°C

Properties

- Resistant to fungus and to fluids used on board
- Flame resistant

EMF : 10.56 ± 0.12 mV at +260°C

Identification

- Conductor Nickel Chromium : White
- Conductor Nickel Aluminium : Green
- Jacket : Green (Size 006)

Green With narrow White Stripe (Size 004)

- Marking : Colour : Black
- Wording : MBBN 3320 YH +++ FR F **

+++ = Code for Nominal Section

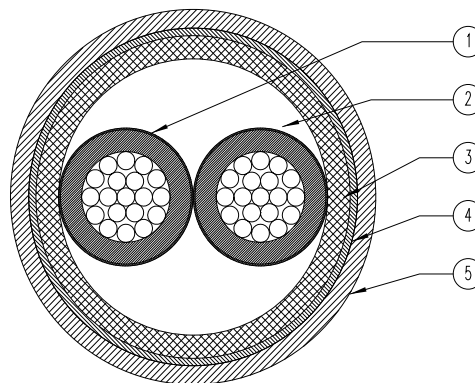
FR = Country of Origin (FR=France)

F = Manufacturer (F=Filotex®)

** = Year of Manufacturing (ie.00 = 2000

Specifications

- MBBN 3320
- prEN 4049-004



DIMENSIONS AND WEIGHT

Code for Nominal section	US AWG	CONDUCTORS		CORES	SCREEN	OHMIC RESISTANCE At 20°C				FINISHED CABLES	
		Construction	Nominal Diameter	Maximal Diameter	Strands Diameter	Nickel Chromium		Nickel Aluminium		Maximal Diameter	Maximal Weight
		n x mm	(mm)	(mm)	(mm)	(Ω/m)		(Ω/m)		(mm)	(g/m)
						Min.	Max.	Min.	Max.		
004	22	19 x 0.15	0.75	1.45	0.12	1.995	2.411	0.786	0.951	4.00	24.3
006	20	19 x 0.20	1.00	1.67	0.12	1.122	1.357	0.443	0.534	4.55	31.4



Filotex®

Type ASNE 0409
ASNE 0410
ASNE 0411
ASNE 0412

Shielded and Sheathed single and multicores
UV Laser printable

PRODUCT REFERENCES

ASNE 0409 BG
ASNE 0410 SU
ASNE 0411 TV
ASNE 0412 VF

CONSTRUCTION

CORES (ASNE 0409)

- ① Conductor :
19 x 0.120 Nickel plated
copper
(Suitable for solderability)
- ② Insulation :
PTFE tape

ASSEMBLY (2 and 4 cores)

- ③ PTFE tape

SHIELD

- ④ Nickel Plated Copper
Spinning

SHEATH

- ⑤ 1 Polyimide Tape
1 Orange PTFE UV Tape

NUMBER OF CORES

ASNE 0410 : 1
ASNE 0411 : 2
ASNE 0412 : 4

Applications

- ☐ Designed for Flight Testing Wiring.

Main data

- ☐ Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- ☐ Voltage rating : 600 Volts RMS.
- ☐ Operating frequency : up to 2500 Hz.
- ☐ Dimensions and weights : See tables on this data sheet
- ☐ Very Good Resistance to Aircraft Fluids.
- ☐ Mould and Fungus Resistant
- ☐ Solderability test on conductors : according to ASNE 0243

Identification

- ☐ Cores and Sheath Colours : See Table on this Data Sheet
- ☐ Marking:

Colour : White on Red and Black wires

Dark Green on other colours.

Wording : On Cores ■ BG** FRF++ ■ BG** FRF++
On Sheaths ■ \$\$** £ FRF++ ■ \$\$** £ FRF++

With : \$\$ = ASNE Type (SU, TV or VF)

** = AWG Wire Size

£ = Topcoat Code (U or None)

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

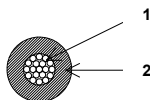
++ = Year of Manufacturing (ie. 01 = 2001)

Specifications

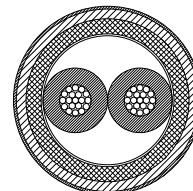
- ☐ ASNE 0409, ASNE 0410, ASNE 0411, ASNE 0412, ASNE 0243
- ☐ NSA 935000, SDF/B67-04/A/108/1128

Filotex® ASNE 0409 - ASNE 0410 - ASNE 0411 - ASNE 0412

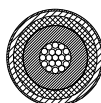
BG



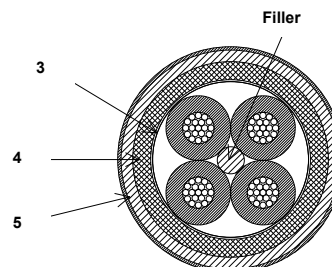
TV



SU



VF



DIMENSIONS AND WEIGHTS (METRIC UNITS)

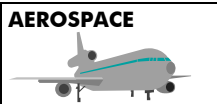
Nexans Filotex® PART NUMBER	Nbr of Cores	Dia. of strand (mm)	Finished Cable						
			Colours		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)			Maximum Weight (g/m)
			Cores	Sheath		Mini.	Nom.	Max.	
ASNE 0409 BG 24 UV	1	-	Orange		91.2	0.86	0.97	1.02	3.10
ASNE 0410 SU 24 UV	1	0.08	White	Orange	91.2	-	1.42	1.50	6.40
ASNE 0411 TV 24 UV	2	0.08	White + Light Blue	Orange	94	-	2.54	2.70	12.4
ASNE 0412 VF 24 UV	4	0.10	White + Light Blue + Red + Black	Orange	94	-	2.99	3.10	21.8

Part 7

Optical cable

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ABS0963-003 LF

Multimode Fibre Optic Cable 62.5/125

Filotex®

PRODUCT REFERENCES

ABS 0963-003 LF
ET 132126

CONSTRUCTION

① OPTICAL FIBRE :

Core + cladding + coating
Silica/Silica/Silicone
Type 62.5/125/400 μm

② PRIMARY JACKET :

Copolymer 0 Halogen High
Temperature
 $\varnothing : 0.90 \pm 0.05 \text{ mm}$

③ MECHANICAL STRENGTH :

Polymer aromatic fibre braid

④ OUTER JACKET:

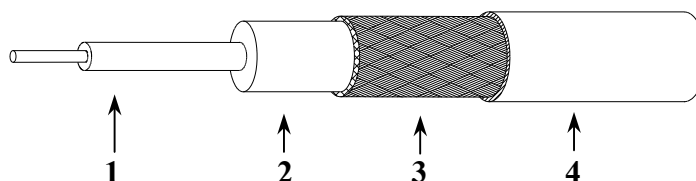
Copolymer 0 Halogen
High Temperature
 $\varnothing : 1.50 \text{ mm}$ (for info.)
+
E.T.F.E
 $\varnothing : 1.80 \pm 0.1 \text{ mm}$

Main data

- ❑ Operating temperature :
 - Long term : -55 to +125°C
 - Peak : -65 to +150°C
- ❑ Maximum pulling force :
 - Long term : 10 daN
 - Short term : 25 daN
- ❑ Tensile strength : > 100 daN
- ❑ Nominal weight : < 4 kg/km
- ❑ Minimum bend radius :
 - Storage > 40 mm
 - Long term > 20 mm
 - Short term (installation) > 12 mm
- ❑ Minimum bend radius :
 - Storage > 40 mm
 - Long term > 20 mm
 - Short term (installation) > 12 mm
- ❑ Maximum attenuation at 20°C :
 - at 850 nm : 4 dB/km
 - at 1310 nm : 2 dB/km
- ❑ Effective index of refraction:
 - at 850 nm : 1.4970
 - at 1300 nm : 1.4919
- ❑ Numerical aperture : 0.275 ± 0.015
- ❑ Cable Bandwidth (MHz. km) :
 - at 850 nm : > 400
 - at 1310 nm : > 1000

Spécifications

- ❑ ABS0963-003



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Fax : + 33 1 69 42 05 70

 **nexans**



Connection :

Stripping of primary jacket , buffer and coating .

If mechanical stripping is used , we highly recommend :

To strip directly from primary jacket to silica
to carefully clean silica with a solvent such as MEK (Methylethylketone).

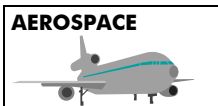
Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent , take care to avoid contact between solvent and other part of the cable such as strength members , silicone and jacket.

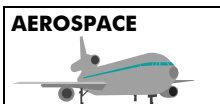
Advantages

- ☐ Small diameter
- ☐ Low weight
- ☐ Good chemical resistance
- ☐ Good mechanical resistance
- ☐ Flame retardant
- ☐ Flammability : non flammable
- ☐ Smoke density and toxicity (According to ABD0031 chart1)

PARAMETERS		With Flame		Without Flame	
		Requested	Measured	Requested	Measured
Dm 4 mn		≤ 200	65	≤ 200	0
Dm 16 mn (for information)		-	207	-	50
TOXICITE at 4 mn	HF	≤ 100	30	≤ 100	0
	HCL	≤ 150	0	≤ 150	0
	HCN	≤ 150	2	≤ 150	0
	SO ₂ /H ₂ S	≤ 100	0	≤ 100	0
	NO/NO ₂	≤ 100	5	≤ 100	0
	CO	≤ 1000	50	≤ 1000	≈ 0
TOXICITY at 16 mn	HF	≤ 100	25	≤ 100	6
	HCL	≤ 150	0	≤ 150	0
	HCN	≤ 150	5	≤ 150	1
	SO ₂ /H ₂ S	≤ 100	0	≤ 100	0
	NO/NO ₂	≤ 100	10	≤ 100	0
	CO	≤ 1000	400	≤ 1000	50



PARAMETER and Measurement norm	TEST Description and Remarks	RESULTS **
Core Diameter ANSI/EIA/TI – A455-58 A		$62.5 \pm 3 \mu\text{m}$
Cladding Diameter ANSI/EIA/TI – A 455-45 B		$125 \pm 2 \mu\text{m}$
Core « non » circularity ANSI/EIA/TI – A 455-45 B		$\leq 5\% (3\mu\text{m})$
Concentricity error ANSI/EIA/TI – A 455-45 B		$3 \mu\text{m}$
Numerical aperture ANSI/EIA/TI – EIA 455-177A		0.275 ± 0.015
Cladding non circularity ANSI / EIA / TI – A 455 – 45 B		$\leq 2\% (2.5 \mu\text{m})$
Index of refraction ANSI/EIA/TIA 455/44B		1.4970 at 850 nm 1.4919 at 1310 nm
Fibre bandwith ANSI/EIA/TI – EIA 455-30B	Tests performed on a 1300 m length	>400 MHz. km (850 nm) > 1000 MHz. km (1310 nm)
Primary Jacket ANSI/EIA/TI – A 455-55B		$900 \pm 50 \mu\text{m}$
Outer Diameter ANSI/EIA/TI – 455-55C		$1.80 \pm 0.1 \text{ mm}$
Cable Stability EN 3745 – 205	Silica versus primary jacket Primary jacket versus outer jacket (2 m and 20 m)	Shrinkage < $100 \mu\text{m}$ Shrinkage < $200 \mu\text{m}$
Attenuation EIA 455-53B		At 850 nm < 4 dB/km At 1310 nm < 2 dB/km
Discontinuity EIA 455-59		Discontinuity < 0.2 dB/dB/point
Ambient light coupling EN 3745 – 305	(20 m) solar spectrum (6000 K) 86400 Lux	$\leq -80\text{dBm}$
Cable attenuation variation during temperature cycling EN 3745 306	5 cycles according to EN 3745 – 402 (20 m)	During test < 0.4 dB** After test ≈ 0 (850 nm, 1310 nm)
Accelerated ageing EN 3745 – 401	(100 m) $\varnothing$ mandrel : 250 mm 168h at 125°C	(850 and 1310 nm) During test $\leq 0.05 \text{ dB}^{**}$ Residual < 0.1 dB**
Cable temperature cycling EN 3745 – 402 definition	High temp. 125°C Low temp. -55°C Duration of high & low temp. 30mn Rate of change : 5°C (20 m)	
Thermal shock EN 3745 – 404	4 cycles 125°C/30mn -55°C/30mn 20°C (20 m)	Maximum permissive variation in attenuation during test sequence and after 24h : < 0.5dB**



PARAMETER and Measurement norm	TEST Description and Remarks	RESULTS **
Cable cold bend test EN 3745 – 406	Ø mandrel : 40 mm 10 turns (2 m) 2 cycles 20°C /-55°C 2 windings and unwindings at -55°C	During test : $\Delta\alpha$ max < 0.6 dB** After 24h : < 0.1 dB**
Flammability EN 3745 – 407	0s	Passed
Life time EN 3745 – 410	(100 m)	> 1000 h at 125 °C
Resistance to fluids EN 3745 – 411	Fluids according to EN 3909	Weight variation < 5% No cracks, no colour change Good printing legibility
Humidity resistance EN 3745 – 412	15 cycles >95% R.H. (20 m)	passed
Fibre proof test EN 3745 – 501	1%/1seconde exceed 100 KPSI	passed
Scrape abrasion EN 3745 – 503	Ø needle : 0.5 mm Load : 10N 100 cycles	$\Delta\alpha < 0.1$ dB ** at 1310 nm during test
Micro-bending EN 3745 – 504	Ø mandrel : 20 mm Load : 150 N	$\Delta\alpha < 0.2$ dB** at 1310 nm during test 15 mn after test, Residual attenuation ≈ 0 dB
Cable tensile strength EN 3745 – 505		Cable breakage > 1100N $\Delta\alpha < 0.2$ dB** for 150 N load
Cable impact test EN 3745 – 506	Energy : 5 J Anvil radius : 15 mm	After 5 impacts $\Delta\alpha < 0.1$ dB**
Cable Cut-through EN 3745 – 507	Load 20N / 1 mn	During test $\Delta\alpha < 0.3$ dB** After test $\Delta\alpha \approx 0$ dB** No insulation degradation No fibre breakage
Torsion test EN 3745 – 508	Cable tension load : 10 N Length under torsion = 250 mm 1000 cycles	$\Delta\alpha$ at 1310 nm during test : 0 dB for one cycle < 0.1 dB** for 1000 cycles
Kink test EN 3745 – 509	Ø of the kink : 20 mm	$\Delta\alpha$ at 1310 nm during test : < 0.2 dB**
Bending test EN 3745 – 510	Ø mandrel : 25 mm 10 turns Tension load on cable : 20 N	After bending : $\Delta\alpha$ 0.15 dB** After unwinding : $\Delta\alpha$ residual ≈ 0 dB
Cable to cable Abrasion EN 3745 – 511	Optical / Electrical Optical / Electrical Optical / Optical	> 10^7 for * CF* 18 with 1 daN load > 10^7 for * DM* 18 with 1 daN load 6×10^6 for 500g load
Flexure Endurance EN 3745 – 512	Tension load on cable : 10 N Ø mandrel : 25 mm 3000 cycles	$\Delta\alpha$ before and after test < 0.1 dB** No insulation degradation
Smoke Density EN 3745 – 601	ABD 0031 Method: AITM 2.0008	See Chart 1



PARAMETER and Measurement norm	TEST Description and Remarks	RESULTS **
Toxicity EN 3745 – 602	ABD 0031 Method: AIM 3.0005	See Chart 1
Strippability EN 3745 – 701	Load : 20 N Stripped length : 50 mm Stripping speed : 25 to 50 mm/mn	< 7 N on secondary coating, 900 μ m
Durability of manufacturer identification EN 3745 – 703	$\varnothing$ needle : 0.5 mm Load : 1.5 N 125 cycles	After test, good printing legibility
UV laser marking EXCIMER Laser (XeCPI) between 0.9 and 1.05 J/ cm ²	Marking contrast versus jacket > 65 %	

* **CF** = Polyamide tapes + FEP coating

* **DM** = PTFE wrapped jacket.

** Optical tests performed with a 85 % / 85 % source (near field and far field) launch conditions.
Launch conditions are calibrated at 15 %

1- STRONG POINTS

Mechanical properties :

- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

Optical properties :

- High bandwidth
- Low cost ferrules (Telecom components)

Chemical properties :

- High chemical resistance
- Very low smoke and toxicity
- No flame propagation

2 – MAIN TARGET APPLICATIONS

Harsh environments such as :

- Aeronautical
- Geophysics
- Space
- Missile
- Chemical industry

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Part 8

Wires and Cables for avionics

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Filotex®

KZ 04, KZ 05, KZ 06 Unscreened hook-up wires High temperature

PRODUCT REFERENCES

KZ 04, KZ 05, KZ 06

CONSTRUCTION

- ① CONDUCTOR :
Stranded silvered copper wires
- ② INSULATION :
Extruded PTFE

Applications

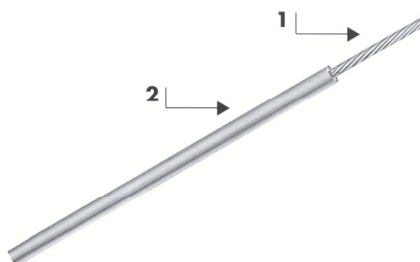
- ❑ Internal wiring in electronic equipment, Aircrafts and satellites. Excelent chemical resistance. In order to increase the operating temperature of the cables up to 250°C, all KZ types can be produced with a nickel plated copper conductor on request.

Main characteristics

- ❑ Operating temperature : -55°C up to +200°C
- ❑ Operating voltage : 250 to 1000 Volts

Spécifications

- ❑ NF C 93-523
- ❑ NF C 32-070 C1



DIMENSIONS AND WEIGHTS (METRIC UNITS)

NFC 93523 and Nexans references	Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nom. Ø mm	D.C. resist. at 20°C maxi. (Ohms/Km)	Overall diameter		Maximum weight Kg / Km	Operating voltage Volts
						mini.	maxi.		
						mm	mm		
KZ 04 - 01	32	0.035	7 x 0.08	0.24	546	0.48	0.58	0.95	250
KZ 04 - 02	30	0.055	7 x 0.10	0.30	349	0.56	0.66	1.3	
KZ 04 - 03	28	0.093	7 x 0.13	0.39	201	0.63	0.73	1.75	
KZ 04 - 04	26	0.14	7 x 0.16	0.48	132	0.74	0.84	2.4	
KZ 04 - 05	24	0.22	7 x 0.20	0.60	86	0.86	0.96	3.4	
KZ 04 - 06	22	0.34	7 x 0.25	0.75	54.4	1.01	1.11	5.0	
KZ 04 - 07	20	0.60	19 x 0.20	1.00	31.3	1.30	1.40	8.25	
KZ 05 - 01	32	0.035	7 x 0.08	0.24	546	0.63	0.84	1.65	600
KZ 05 - 02	30	0.055	7 x 0.10	0.30	349	0.71	0.91	2.1	
KZ 05 - 03	28	0.093	7 x 0.13	0.39	201	0.79	1.00	2.6	
KZ 05 - 04	26	0.14	7 x 0.16	0.48	132	0.89	1.10	3.4	
KZ 05 - 05	24	0.22	7 x 0.20	0.60	86	1.04	1.22	4.5	
KZ 05 - 06	22	0.34	7 x 0.25	0.75	54.4	1.17	1.37	6.2	
KZ 05 - 07	20	0.60	19 x 0.20	1.00	31.3	1.42	1.62	9.5	
KZ 05 - 08	18	0.93	19 x 0.25	1.25	20.5	1.67	1.92	14.1	
KZ 05 - 09	16	1.34	19 x 0.30	1.50	13.9	1.92	2.27	20.0	
KZ 05 - 10	14	1.91	27 x 0.30	1.85	10.0	2.30	2.66	27.0	
KZ 05 - 11	12	3.18	45 x 0.30	2.45	6.0	2.89	3.24	42.5	
KZ 06 - 01	32	0.035	7 x 0.08	0.24	546	0.88	1.09	2.6	1000
KZ 06 - 02	30	0.055	7 x 0.10	0.30	349	0.95	1.16	3.0	
KZ 06 - 03	28	0.093	7 x 0.13	0.39	201	1.04	1.24	3.7	
KZ 06 - 04	26	0.14	7 x 0.16	0.48	132	1.14	1.34	4.6	
KZ 06 - 05	24	0.22	7 x 0.20	0.60	86	1.27	1.47	5.75	
KZ 06 - 06	22	0.34	7 x 0.25	0.75	54.4	1.42	1.63	7.7	
KZ 06 - 07	20	0.60	19 x 0.20	1.00	31.3	1.66	1.86	11.0	
KZ 06 - 08	18	0.93	19 x 0.25	1.25	20.5	1.92	2.17	16.0	
KZ 06 - 09	16	1.34	19 x 0.30	1.50	13.9	2.10	2.41	21.1	
KZ 06 - 10	14	1.91	27 x 0.30	1.85	10.0	2.51	2.92	30.0	
KZ 06 - 11	12	3.18	45 x 0.30	2.45	6.0	3.14	3.55	47.5	



Filotex®

KZ 55, KZ 57, KZ 59 Screened and jacketed hook-up wires High temperature

PRODUCT REFERENCES

KZ 55, KZ 57, KZ 59

CONSTRUCTION

- ① CONDUCTOR :
Stranded silvered copper wires
- ② INSULATION :
Extruded PTFE
- ③ SCREEN
Silvered copper braid
KZ 55 are reinforced with a polyimide tape
- ④ OUTER JACKET
FEP
Radial thickness : 0.30 mm nominal

Applications

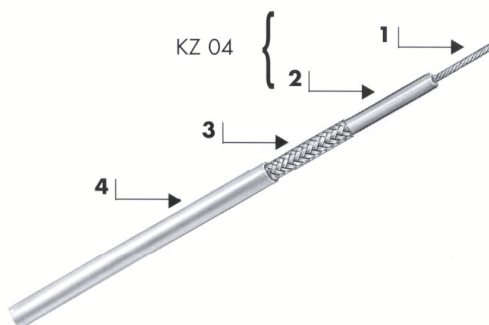
- ❑ Internal wiring in electronic equipment, Aircrafts and satellites. Excelent chemical resistance. In order to increase the operating temperature of the cables up to 250°C, all KZ types can be produced with a nickel plated copper conductor on request.

Main characteristics

- ❑ Operating temperature : -55°C up to +200°C
- ❑ Operating voltage : 250 to 1000 Volts

Spécifications

- ❑ NF C 93-523
- ❑ NF C 32-070 C1



DIMENSIONS AND WEIGHTS (METRIC UNITS)

NFC 93523 and Nexans references	BASE CORE					D.C. resist. at 20°C maxi. (Ohms/ Km)	Braid nom Ø. of strands mm	Overall diameter		Maximum weight Kg / Km	Operating voltage Volts
	Type	CONDUCTOR						mini.	maxi.		
		Gauge AWG	Cross section mm2	Construction n x Ø mm	Nom. Ø mm			mm			

KZ 55-04	KZ 04-04	26	0.14	7 x 0.16	0.48	132	0.10	1.85	2.05	8.11	250
KZ 55-05	KZ 04-05	24	0.22	7 x 0.20	0.60	86	0.10	1.97	2.17	9.66	
KZ 55-06	KZ 04-06	22	0.34	7 x 0.25	0.75	54.4	0.10	2.12	2.32	11.90	
KZ 55-07	KZ 04-07	20	0.60	19 x 0.20	1.00	31.3	0.10	2.40	2.60	16.50	

KZ 57-01	KZ 05-01	32	0.035	7 x 0.08	0.24	546	0.10	1.72	1.97	6.72	600
KZ 57-02	KZ 05-02	30	0.055	7 x 0.10	0.30	349	0.10	1.79	2.04	7.49	
KZ 57-03	KZ 05-03	28	0.093	7 x 0.13	0.39	201	0.10	1.88	2.13	8.39	
KZ 57-04	KZ 05-04	26	0.14	7 x 0.16	0.48	132	0.10	1.98	2.23	9.63	
KZ 57-05	KZ 05-05	24	0.22	7 x 0.20	0.60	86	0.10	2.11	2.36	11.30	
KZ 57-06	KZ 05-06	22	0.34	7 x 0.25	0.75	54.4	0.10	2.25	2.50	13.60	
KZ 57-07	KZ 05-07	20	0.60	19 x 0.20	1.00	31.3	0.13	2.65	2.90	20.00	
KZ 57-08	KZ 05-08	18	0.93	19 x 0.25	1.25	20.5	0.13	2.93	3.18	26.10	
KZ 57-09	KZ 05-09	16	1.34	19 x 0.30	1.50	13.9	0.13	3.23	3.53	33.50	
KZ 57-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.0	0.13	3.61	3.91	42.60	
KZ 57-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.0	0.13	4.19	4.49	61.10	

KZ 59-01	KZ 06-01	32	0.035	7 x 0.08	0.24	546	0.10	1.97	2.22	8.79	1000
KZ 59-02	KZ 06-02	30	0.055	7 x 0.10	0.30	349	0.10	2.03	2.28	9.45	
KZ 59-03	KZ 06-03	28	0.093	7 x 0.13	0.39	201	0.10	2.12	2.37	10.6	
KZ 59-04	KZ 06-04	26	0.14	7 x 0.16	0.48	132	0.10	2.22	2.47	11.9	
KZ 59-05	KZ 06-05	24	0.22	7 x 0.20	0.60	86	0.10	2.35	2.60	13.6	
KZ 59-06	KZ 06-06	22	0.34	7 x 0.25	0.75	54.4	0.13	2.65	2.90	18.2	
KZ 59-07	KZ 06-07	20	0.60	19 x 0.20	1.00	31.3	0.13	2.89	3.14	22.7	
KZ 59-08	KZ 06-08	18	0.93	19 x 0.25	1.25	20.5	0.13	3.18	3.43	29.2	
KZ 59-09	KZ 06-09	16	1.34	19 x 0.30	1.50	13.9	0.13	3.38	3.68	35.4	
KZ 59-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.0	0.13	3.84	4.19	46.8	
KZ 59-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.0	0.13	4.65	5.00	70.4	



Filotex®

KZ 67, KZ 69, KZ 71 Screened and jacketed pairs High temperature

PRODUCT REFERENCES

KZ 67, KZ 69, KZ 71

CONSTRUCTION

- ① CONDUCTOR :
Stranded silvered copper wires
- ② INSULATION :
Extruded PTFE
- ③ SCREEN
Silvered copper braid
KZ 67 are reinforced with a polyimide tape
- ④ OUTER JACKET
FEP
Radial thickness : 0.30 mm nominal

Applications

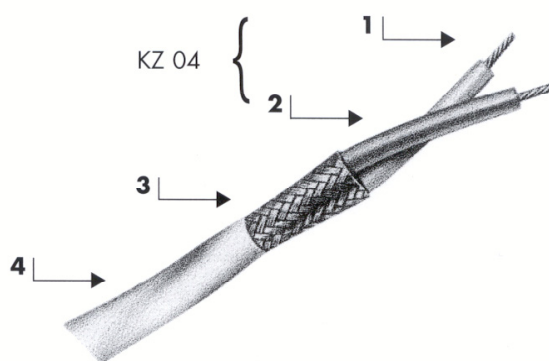
- ❑ Internal wiring in electronic equipment, Aircrafts and satellites.

Main characteristics

- ❑ Operating temperature : -55°C up to +200°C
- ❑ Operating voltage : 250 to 1000 Volts

Spécifications

- ❑ NF C 93-523
- ❑ NF C 32-070 C1



DIMENSIONS AND WEIGHTS (METRIC UNITS)

NFC 93523 and Nexans references	BASE CORE					D.C. resist. at 20°C maxi. (Ohms/ Km)	Braid nom Ø. of strands mm	Overall diameter		Average weight Kg / Km	Operating voltage Volts
	Type	CONDUCTOR						mini.	maxi.		
		Gauge AWG	Cross section mm2	Construction n x Ø mm	Ø Nom. mm			mm	mm		
KZ 67-01	KZ 04-01	32	0.035	7 x 0.08	0.24	573	0.10	2.11	2.36	8.03	250
KZ 67-02	KZ 04-02	30	0.055	7 x 0.10	0.30	366	0.10	2.27	2.52	9.35	
KZ 67-03	KZ 04-03	28	0.093	7 x 0.13	0.39	211	0.10	2.41	2.62	10.8	
KZ 67-04	KZ 04-04	26	0.14	7 x 0.16	0.48	138	0.10	2.63	2.88	13.0	
KZ 67-05	KZ 04-05	24	0.22	7 x 0.20	0.60	90	0.13	3.02	3.27	17.9	
KZ 67-06	KZ 04-06	22	0.34	7 x 0.25	0.75	57	0.13	3.32	3.57	22.5	
KZ 67-07	KZ 04-07	20	0.60	19 x 0.20	1.00	33	0.13	3.90	4.15	31.7	
KZ 69-01	KZ 05-01	32	0.035	7 x 0.08	0.24	573	0.10	2.46	2.71	10.6	600
KZ 69-02	KZ 05-02	30	0.055	7 x 0.10	0.30	366	0.10	2.60	2.85	12.0	
KZ 69-03	KZ 05-03	28	0.093	7 x 0.13	0.39	211	0.10	2.78	3.03	13.7	
KZ 69-04	KZ 05-04	26	0.14	7 x 0.16	0.48	138	0.13	3.13	3.38	18.1	
KZ 69-05	KZ 05-05	24	0.22	7 x 0.20	0.60	90	0.13	3.39	3.64	21.5	
KZ 69-06	KZ 05-06	22	0.34	7 x 0.25	0.75	57	0.13	3.67	3.92	26.2	
KZ 69-07	KZ 05-07	20	0.60	19 x 0.20	1.00	33	0.13	4.17	4.42	35.1	
KZ 69-08	KZ 05-08	18	0.93	19 x 0.25	1.25	21.5	0.13	4.73	5.08	46.9	
KZ 69-09	KZ 05-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.51	5.86	64.4	
KZ 69-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.27	6.62	82.4	
KZ 69-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.43	7.78	120.0	
KZ 71-01	KZ 06-01	32	0.035	7 x 0.08	0.24	573	0.13	3.11	3.36	16.4	1000
KZ 71-02	KZ 06-02	30	0.055	7 x 0.10	0.30	366	0.13	3.23	3.48	17.7	
KZ 71-03	KZ 06-03	28	0.093	7 x 0.13	0.39	211	0.13	3.41	3.66	19.9	
KZ 71-04	KZ 06-04	26	0.14	7 x 0.16	0.48	138	0.13	3.61	3.86	22.6	
KZ 71-05	KZ 06-05	24	0.22	7 x 0.20	0.60	90	0.13	3.87	4.12	26.1	
KZ 71-06	KZ 06-06	22	0.34	7 x 0.25	0.75	57	0.13	4.17	4.42	31.4	
KZ 71-07	KZ 06-07	20	0.60	19 x 0.20	1.00	33	0.13	4.65	4.90	40.2	
KZ 71-08	KZ 06-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.39	5.64	55.6	
KZ 71-09	KZ 06-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.81	6.16	68.1	
KZ 71-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.73	7.08	90.7	
KZ 71-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.99	8.34	133	



Filotex®

KZ 79, KZ 81, KZ 83 Screened and jacketed triples High temperature

PRODUCT REFERENCES

KZ 79, KZ 81, KZ 83

CONSTRUCTION

- ① CONDUCTOR :
Stranded silvered copper wires
- ② INSULATION :
Extruded PTFE
- ③ SCREEN
Silvered copper braid
KZ 79 are reinforced with a polyimide tape
- ④ OUTER JACKET
FEP
Radial thickness : 0.30 mm nominal

Applications

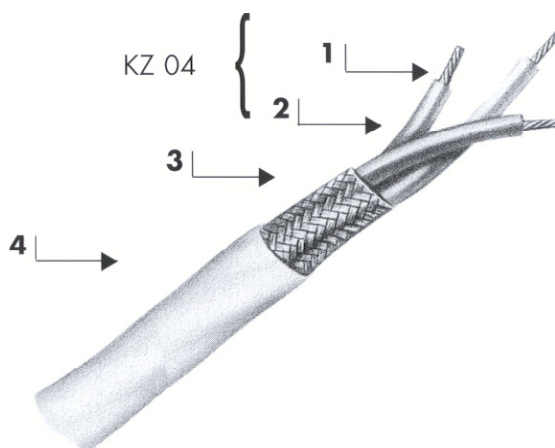
- ❑ Internal wiring in electronic equipment, Aircrafts and satellites.

Main characteristics

- ❑ Operating temperature : -55°C up to +200°C
- ❑ Operating voltage : 250 to 1000 Volts

Spécifications

- ❑ NF C 93-523
- ❑ NF C 32-070 C1



DIMENSIONS AND WEIGHTS (METRIC UNITS)

NFC 93523 and Nexans references	BASE CORE					D.C. resist. at 20°C maxi. (Ohms/ Km)	Braid nom Ø. of strands mm mini.	Overall diameter		Average weight Kg / Km	Operating voltage Volts
	Type	CONDUCTOR						mini.	maxi.		
		Gauge AWG	Cross section mm2	Construction n x Ø mm	Ø Nom. mm			mm			
KZ 79-01	KZ 04-01	32	0.035	7 x 0.08	0.24	573	0.10	2.19	2.44	9.85	250
KZ 79-02	KZ 04-02	30	0.055	7 x 0.10	0.30	366	0.10	2.36	2.61	11.7	
KZ 79-03	KZ 04-03	28	0.093	7 x 0.13	0.39	211	0.10	2.51	2.76	13.7	
KZ 79-04	KZ 04-04	26	0.14	7 x 0.16	0.48	138	0.13	2.90	3.15	18.7	
KZ 79-05	KZ 04-05	24	0.22	7 x 0.20	0.60	90	0.13	3.15	3.40	23.1	
KZ 79-06	KZ 04-06	22	0.34	7 x 0.25	0.75	57	0.13	3.48	3.73	29.6	
KZ 79-07	KZ 04-07	20	0.60	19 x 0.20	1.00	33	0.13	4.10	4.35	42.7	
KZ 81-01	KZ 05-01	32	0.035	7 x 0.08	0.24	573	0.10	2.57	2.82	13.4	600
KZ 81-02	KZ 05-02	30	0.055	7 x 0.10	0.30	366	0.13	2.87	3.12	17.4	
KZ 81-03	KZ 05-03	28	0.093	7 x 0.13	0.39	211	0.13	3.07	3.32	19.9	
KZ 81-04	KZ 05-04	26	0.14	7 x 0.16	0.48	138	0.13	3.28	3.53	23.4	
KZ 81-05	KZ 05-05	24	0.22	7 x 0.20	0.60	90	0.13	3.56	3.81	28.2	
KZ 81-06	KZ 05-06	22	0.34	7 x 0.25	0.75	57	0.13	3.86	4.11	34.8	
KZ 81-07	KZ 05-07	20	0.60	19 x 0.20	1.00	33	0.13	4.40	4.65	47.6	
KZ 81-08	KZ 05-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.18	5.53	67.5	
KZ 81-09	KZ 05-09	16	1.34	19 x 0.30	1.50	14.6	0.13	5.83	6.18	89.1	
KZ 81-10	KZ 05-10	14	1.91	27 x 0.30	1.85	10.5	0.13	6.64	7.00	115	
KZ 81-11	KZ 05-11	12	3.18	45 x 0.30	2.45	6.3	0.13	7.89	8.24	169	
KZ 83-01	KZ 06-01	32	0.035	7 x 0.08	0.24	573	0.13	3.26	3.51	20.9	1000
KZ 83-02	KZ 06-02	30	0.055	7 x 0.10	0.30	366	0.13	3.39	3.64	22.7	
KZ 83-03	KZ 06-03	28	0.093	7 x 0.13	0.39	211	0.13	3.58	3.83	25.8	
KZ 83-04	KZ 06-04	26	0.14	7 x 0.16	0.48	138	0.13	3.80	4.05	29.6	
KZ 83-05	KZ 06-05	24	0.22	7 x 0.20	0.60	90	0.13	4.08	4.33	34.5	
KZ 83-06	KZ 06-06	22	0.34	7 x 0.25	0.75	57	0.13	4.40	4.65	42.1	
KZ 83-07	KZ 06-07	20	0.60	19 x 0.20	1.00	33	0.13	5.09	5.34	57.6	
KZ 83-08	KZ 06-08	18	0.93	19 x 0.25	1.25	21.5	0.13	5.70	6.15	76.2	
KZ 83-09	KZ 06-09	16	1.34	19 x 0.30	1.50	14.6	0.13	6.15	6.60	94.8	
KZ 83-10	KZ 06-10	14	1.91	27 x 0.30	1.85	10.5	0.13	7.14	7.59	127	
KZ 83-11	KZ 06-11	12	3.18	45 x 0.30	2.45	6.3	0.13	8.49	8.94	188	



Filotex®

ETF, EF & EEF Unscreened hook-up wires High temperature

PRODUCT REFERENCES

ETF, EF, EEF

CONSTRUCTION

- ① CONDUCTOR :
Stranded silvered copper wires
- ② INSULATION :
Extruded PTFE

Applications

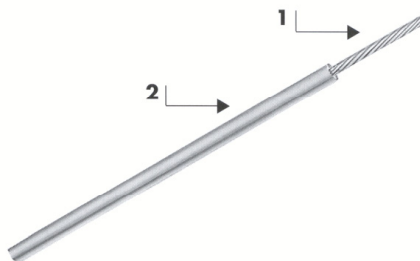
- ❑ Internal wiring in electronic equipment, Aircrafts and satellites. Excelent chemical resistance. In order to increase the operating temperature of the cables up to 250°C, all KZ types can be produced with a nickel plated copper conductor on request.

Main characteristics

- ❑ Operating temperature : -55°C up to +200°C
- ❑ Operating voltage : 250 to 1000 Volts

Spécifications

- ❑ MIL W 16878/4 (EF), 16878/5 (EEF), 16878/6 (ETF) US specification
- ❑ NF C 32-070 C1



DIMENSIONS AND WEIGHTS (METRIC UNITS)

Nexans Reference	Gauge AWG	Cross section mm ²	Construction n x Ø mm	Nom. Ø mm	Overall diameter		Operating voltage Volts
					mini.	maxi.	
					mm		
ETF 32-07	32	0.035	7 x 0.079	0.24	0.50	0.61	250
ETF 30-07	30	0.057	7 x 0.102	0.30	0.56	0.66	
ETF 30-19	30	0.054	19 x 0.06	0.30	0.56	0.66	
ETF 28-07	28	0.089	7 x 0.127	0.39	0.63	0.74	
ETF 28-19	28	0.093	19 x 0.079	0.39	0.63	0.74	
ETF 26-07	26	0.14	7 x 0.16	0.48	0.74	0.84	
ETF 26-19	26	0.15	19 x 0.102	0.48	0.74	0.84	
ETF 24-07	24	0.22	7 x 0.203	0.59	0.86	0.96	
ETF 24-19	24	0.24	19 x 0.127	0.63	0.86	0.96	
ETF 22-07	22	0.36	7 x 0.254	0.74	1.01	1.12	
ETF 22-19	22	0.38	19 x 0.16	0.78	1.01	1.12	
ETF 20-07	20	0.56	7 x 0.32	0.95	1.22	1.32	
ETF 20-19	20	0.61	19 x 0.203	0.97	1.22	1.32	
EF 32-07	32	0.035	7 x 0.079	0.24	0.66	0.86	600
EF 30-07	30	0.057	7 x 0.102	0.30	0.71	0.91	
EF 30-19	30	0.054	19 x 0.06	0.34	0.71	0.91	
EF 28-07	28	0.089	7 x 0.127	0.39	0.79	1.00	
EF 28-19	28	0.093	19 x 0.079	0.39	0.79	1.00	
EF 26-07	26	0.14	7 x 0.16	0.48	0.89	1.10	
EF 26-19	26	0.15	19 x 0.102	0.48	0.89	1.10	
EF 24-07	24	0.22	7 x 0.203	0.59	1.02	1.22	
EF 24-19	24	0.24	19 x 0.127	0.63	1.02	1.22	
EF 22-07	22	0.36	7 x 0.254	0.74	1.17	1.37	
EF 22-19	22	0.38	19 x 0.16	0.78	1.17	1.37	
EF 20-07	20	0.56	7 x 0.32	0.95	1.37	1.57	
EF 20-19	20	0.61	19 x 0.203	0.97	1.37	1.57	
EF 18-07	18	0.89	7 x 0.404	1.19	1.63	1.88	
EF 18-19	18	0.96	19 x 0.254	1.21	1.63	1.88	
EF 16-19	16	1.23	19 x 0.287	1.45	1.85	2.21	
EEF 32-07	32	0.035	7 x 0.079	0.24	0.91	1.12	1000
EEF 30-07	30	0.057	7 x 0.102	0.30	0.97	1.17	
EEF 30-19	30	0.054	19 x 0.06	0.34	0.97	1.17	
EEF 28-07	28	0.089	7 x 0.127	0.39	1.04	1.24	
EEF 28-19	28	0.093	19 x 0.079	0.39	1.04	1.24	
EEF 26-07	26	0.14	7 x 0.16	0.48	1.14	1.35	
EEF 26-19	26	0.15	19 x 0.102	0.48	1.14	1.35	
EEF 24-07	24	0.22	7 x 0.203	0.59	1.27	1.47	
EEF 24-19	24	0.24	19 x 0.127	0.63	1.27	1.47	
EEF 22-07	22	0.36	7 x 0.254	0.74	1.42	1.63	
EEF 22-19	22	0.38	19 x 0.16	0.78	1.42	1.63	
EEF 20-07	20	0.56	7 x 0.32	0.95	1.63	1.83	
EEF 20-19	20	0.61	19 x 0.203	0.97	1.63	1.83	
EEF 18-07	18	0.89	7 x 0.404	1.19	1.88	2.13	
EEF 18-19	18	0.96	19 x 0.254	1.21	1.88	2.13	
EEF 16-19	16	1.23	19 x 0.287	1.45	2.10	2.41	

About Nexans cables for OEMs

Nexans, with its Filotex® products, has a high **technology knowledge** and an **international experience**, which has been developed in different industrial areas:

- Aeronautics and Space,
- Railways,
- Automotive,
- Defense and Navy,
- Electronics and Industry,
- Geophysics,
- Datacom,
- Medical.

A global presence

Nexans has a worldwide presence with industrial units in more than 30 countries and commercial activities worldwide.

This enables us to offer the best possible service to our customers where local support is needed.



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Our strengths

- High technology capabilities:
 - **Insulation** knowledge : different materials & processes,
 - **Screen** knowledge : braid and / or tape, spiral,
 - **Miniaturization** : exclusive technology process.
 - **High bit rate technology**.
- **Worldwide** experience (different markets)
- Development & production capacity:
 - Standard or **customized** products,
 - Small or long series,
 - Several R&D and production centres.
- ISO 9001 and 14001 certifications.

Some references...

Aeronautics and Space: Agusta, Alenia, Airbus, Antonov, Bae, Boeing, CASA, Dassault, Denel, EADS, Embraer, Eurocopter, IAI, Rolls Royce, SNECMA, TAI, Turbomeca...

Railways: Alstom, Ansaldo, Bombardier, CAF, RATP, RENFE, Rotem, Siemens, SNCB, SNCF, STIB...

Automotive: Audi, Delphi, Land Rover, Mercedes, PSA, Renault, SAAB, Volkswagen, Volvo...

Defense and Navy: Aselsan, DCN, DGA, ECA, Groupe Inter technique, HDW, Kentron, French, Dutch and Australian navies, MBDA, Sagem, Thales, Vosper...

Electronics and Industry: Actaris, ABB, Crouzet, Druck, Gems, Philips, Schneider, Sercel, Siemens, Thomson, Wika...

Datacom: Alcatel, ECI, Fujitsu, Lucent, Nokia, Nortel, Belgacom, Deutsche Telecom, France Telecom, Telecom Italia, Telefonica, Radiall, Rosenberger...

Medical: Esaote, Johnson & Johnson, Medtronic, Philips medical...

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