

## Network cable - NBC-93C/... - 1408538

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By the meter, Network cable, PROFINET CAT5 (100 Mbps), shielded, PUR/FRNC halogen-free, green RAL 6018, 4-wire (1x4xAWG22/7; SF/TQ), Color, single wire: White, yellow, blue, orange, Cable length: Free input (110.0 ... 500 m), Supplied on a cable drum in up to two parts (details: see technical data)



### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	0.010 g
Custom tariff number	85444995
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	Free input (110.0 ... 500 m)
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#### General data

Note	The ordered cable length can be supplied in up to two parts (each > 100 m) on one cable drum. Corresponding deliveries are marked accordingly.
Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801:2002)
Alternative short product description	Cable drum

#### Cable

Product labeling	"sequential length in metres" PN-CABLE-934-C / PUR-4X22AWG/7 Trailing * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC * (Cable supplier cable supplier)
Cable type	PROFINET drag chain CAT5
Cable type (abbreviation)	93C
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm <sup>2</sup>

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### Technical data

#### Cable

AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.5 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 0.9 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Number of bending cycles	3000000
Bending radius	100 mm
Traversing path	10 m
Traversing rate	4 m/s
Acceleration	4 m/s <sup>2</sup>
Torsion force	± 30 °/m
Tensile strength short-term/long-term	≤ 150 N
Cable weight	61 kg/km
Outer sheath, material	PUR
Material, inner sheath	FRNC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120 Ω (per km)
Wave impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Signal speed	0.66 c
Signal runtime	5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m (At 10 MHz)
Nominal voltage, cable	600 V (UL rating)
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Special properties	Electrical properties according to EN 50288-2-2
Flame resistance	according to IEC 60332-1-2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant

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### Technical data

#### Cable

Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-50 °C ... 70 °C

### Drawings

Cable cross section



PROFINET drag chain CAT5 [93C]

### Classifications

#### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27061801
eCl@ss 9.0	27061801

#### ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC001855
ETIM 5.0	EC000830
ETIM 6.0	EC000830

#### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604

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### Classifications

#### UNSPSC

UNSPSC 12.01	31261501
UNSPSC 13.2	26121604

### Accessories

#### Accessories

#### Data plug

RJ45 connector - VS-PN-RJ45-5-Q/IP20 - 1658435



RJ45 connector, Degree of protection: IP20, Number of positions: 4, 100 Mbps, CAT5 (IEC 11801:2002), Material: PA, Connection method: IDC fast connection, Connection cross section: AWG 22-22, Cable exit: straight

RJ45 connector - CUC-IND-C1ZNI-S/R4IP8 - 1421126



RJ45 connector, Degree of protection: IP20, Number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), Material: Zinc die-cast, Connection method: IDC fast connection, Connection cross section: AWG 23-22, Cable exit: straight

RJ45 connector - CUC-IND-C1ZNI-B/R4IP8 - 1421127



RJ45 connector, Degree of protection: IP20, Number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), Material: Zinc die-cast, Connection method: IDC fast connection, Connection cross section: AWG 23-22, Cable exit: angled

RJ45 connector - CUC-IND-C1ZNI-T/R4IP8 - 1421128



RJ45 connector, Degree of protection: IP20, Number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), Material: Zinc die-cast, Connection method: IDC fast connection, Connection cross section: AWG 23-22, Cable exit: angled

