

Flexible, lightweight EMI/RFI side-entry shielding

for spot coverage and repair of wire harness applications



WHAT YOU NEED TO KNOW ABOUT EMI/RFI SHIELDING PERFORMANCE

	NiCu	Armorlite™	Amberstrand®	MasterWrap™
TRANSFER IMPEDANCE (Per IEC 62153-4) (Max values for 1/2 inch diameter shields)				
FREQUENCY				
10 KHz	5 mΩ/m	50 mΩ/m	60 mΩ/m	40 mΩ/m
100 KHz	5 mΩ/m	50 mΩ/m	60 mΩ/m	40 mΩ/m
1 MHz	12 mΩ/m	50 mΩ/m	60 mΩ/m	40 mΩ/m
10 MHz	80 mΩ/m	50 mΩ/m	80 mΩ/m	40 mΩ/m
100 MHz	130 mΩ/m	30 mΩ/m	110 mΩ/m	80 mΩ/m
SHIELDING ATTENUATION (Per IEC 62153-4) (Min values for 1/2 inch diameter shields)				
FREQUENCY				
1 GHz	38 dB	55 dB	48 dB	40 dB
3 GHz	40 dB	60 dB	55 dB	35 dB
5 GHz	44 dB	60 dB	60 dB	45 dB
8 GHz	40 dB	50 dB	60 dB	40 dB
WEIGHT	154 g/m	14.4 g/m	12.1 g/m	20.3 g/m

The table at left is a useful summary of shielding performance for both QQ-B-575 / A-A-59569 NiCu as well as lightweight braid and MasterWrap™. Transfer impedance as well as shielding attenuation data is supplied for 1/2" diameter test samples. At high frequencies, both LWB and MasterWrap™ provide comparable and even superior performance to nickel-copper due to reduced windowing and superior optical coverage with significant reduction in weight. Further improvements in high-frequency shielding attenuation can be achieved using conductive tape wraps and/or via hybrid blends of LWB and NiCu.

DIMENSIONAL INFORMATION • HOW TO ORDER

How to Order

103-079

-024

Product Series

Dash No (See Table 1)

Table I						
Dash No	Nominal I.D. (Ref)	Reference Wire Bundle Range Nominal	Approximate Weight Grams/Ft.	Approximate Milliohms per Meter	Min. Pull Strength (lbs)	Size Indicator color code
004	.125 (3.2)	.093 (2.4) .170 (4.3)	2.1	99.8	39	BLACK
008	.250 (6.4)	.170 (4.3) .300 (7.6)	4.0	52.2	75	BROWN
012	.375 (9.5)	.300 (7.6) .406 (10.3)	5.0	41.8	94	RED
016	.500 (12.7)	.406 (10.3) .520 (13.2)	6.2	34.0	116	ORANGE
020	.625 (15.9)	.520 (13.2) .675 (17.2)	8.7	24.2	158	YELLOW
024	.750 (19.1)	.675 (17.2) .825 (21.0)	10.6	20.0	193	GREEN
032	1.000 (25.4)	.825 (21.0) 1.100 (27.9)	12.9	16.4	237	BLUE
040	1.250 (31.8)	.938 (23.8) 1.312 (33.3)	17.4	TBD	TBD	VIOLET
048	1.500 (38.1)	1.187 (30.1) 1.590 (40.4)	21.2	TBD	TBD	GRAY
064	2.000 (50.8)	1.812 (33.0) 2.090 (53.1)	25.8	TBD	TBD	WHITE

