

# ARACON® BRAIDED EMI SHIELDING

ARACON brand metal clad fibers are available in various types of tubular braided EMI shielding for your most demanding applications. Available only from Micro-Coax, ARACON brand metal-clad fibers combine the strength, light weight and flexibility of genuine DuPont™ KEVLAR® fibers with the conductivity and corrosion resistance of nickel or the solderability of silver.

ARACON braids offer excellent performance in high-vibration, high-stress applications. When ARACON fibers are braided into a shield, superior performance against electromagnetic and radio frequency interference (EMI/RFI) with weight savings of up to 80% over conventional metal braiding is achieved.

Nickel-plated ARACON braids are offered in two grades: shielding grade for those applications where weight savings is paramount and enhanced grade where additional corrosion resistance is required. Silver-plated ARACON braid is offered in shielding grade only for applications where solderability is crucial. In each case, 75/25 blended braids of ARACON with either nickel or silver-plated copper wire are available for improved low frequency shielding and lightning protection while still realizing substantial weight savings compared to traditional metal braid.

Typical EMI problem areas behind connectors and backshells can easily be shielded with ARACON tubular braids. Multiple sizes are available allowing shielding of various harness and connector sizes and all sizes may be terminated with banding straps, continuous force springs or compression-style terminations to provide the needed EMI shielding without excess weight.

Standard sizes are available for all grades and blends in diameters ranging from 0.125" ID to 2.00" ID. Smaller sizes are available in 100% shielding grade ARACON. Customized solutions and expert engineering support are available should a special size, blend or contractor sourced overbraid made from bulk ARACON fiber be required for your specific application.

When your shielding application requires weight reduction at a cost effective price, turn to the proven solution

— ARACON

## EMI SHIELDING



## SLEEVING, 75/25 COMPOSITE/METAL, NICKEL PLATED, CLASS I — SHIELDING GRADE

ARACON<sup>®</sup> Braided EMI Shielding

Nominal Size (in)	Braid Description	Reference Wire bundle Range (in)		DC Resistance (mΩ/ft)	Nominal Weight (g/ft)	Maximum Weight (g/ft)	Weight of Equivalent Copper Braid per AA59569 (g/ft)
		Min	Max				
0.0625	BXN0200E/NC-75/25-0062-1	0.045	0.100	33.8	0.81	0.90	2.14
0.125	BXN0400E/NC-75/25-0125-1	0.090	0.150	15.9	1.79	1.99	4.02
0.250	BXN0400E/NC-75/25-0250-1	0.125	0.312	7.4	3.35	3.72	7.74
0.375	BXN0400E/NC-75/25-0375-1	0.187	0.562	5.0	5.02	5.58	11.46
0.500	BXN0400E/NC-75/25-0500-1	0.250	0.750	3.8	6.70	7.44	15.17
0.625	BXN0400E/NC-75/25-0625-1	0.375	0.875	2.3	9.45	10.50	40.23
0.750	BXN0400E/NC-75/25-0750-1	0.500	1.000	2.5	9.95	11.05	23.54
1.000	BXN0400E/NC-75/25-1000-1	0.780	1.187	2.2	15.85	17.61	60.70
1.250	BXN0400E/NC-75/25-1250-1	0.938	1.312	1.2	19.70	21.89	83.01
1.500	BXN0400E/NC-75/25-1500-1	1.187	1.875	1.4	23.78	26.42	90.45
2.000	BXN0400E/NC-75/25-2000-1	1.300	2.125	0.6	36.62	40.69	120.21

### NOTES

**Materials:** *Nickel-plated, Class I — Shielding Grade, ARACON fiber per MCS A-18525  
Nickel plated copper wire per ASTM B-355*

**Specification:** *See Micro-Coax Control Specification MCS A-18406 for detailed braid specifications*

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