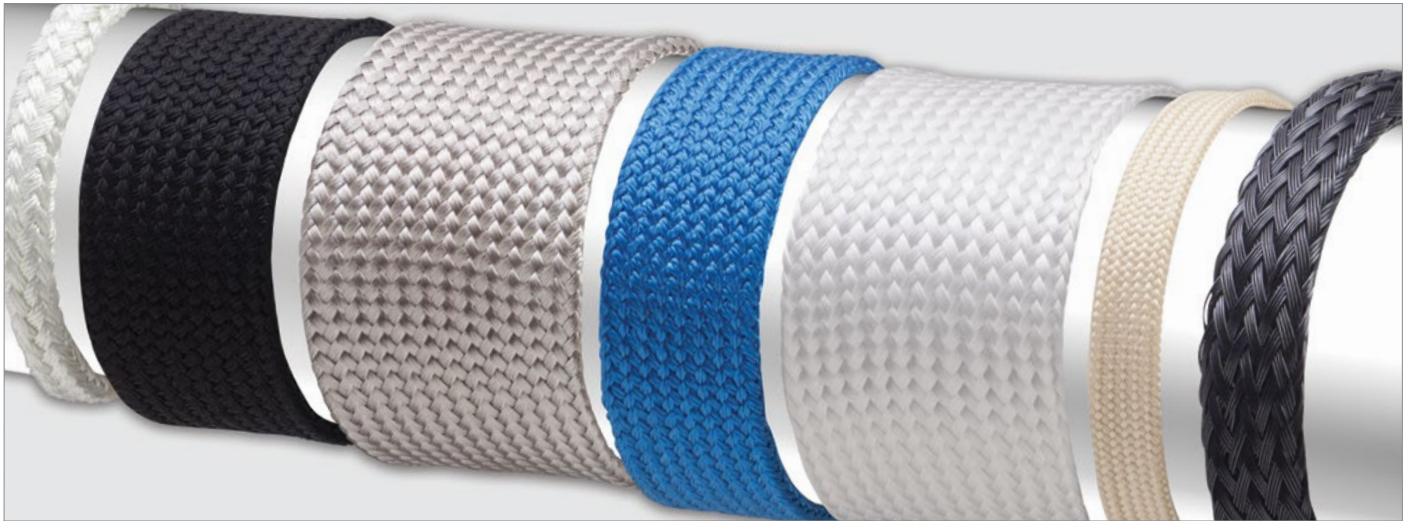


Custom Overbraiding



BRAIDING SOLUTIONS

Carlisle Interconnect Technologies' (CarlisleIT) Santa Fe Textiles operation has the engineering experience and production capability to supply all your braiding needs.

From simple hose to complex braiding solutions for harnesses and assemblies, CarlisleIT has the experience and capacity to get your job done quickly. We offer a wide range of braiding materials and full engineering support which allows us to customize a cost-effective solution for your cable protection needs. We also specialize in quick-turn manufacturing to support your production needs, with the ability to turn product in 24 to 48 hours when required.

CarlisleIT braiding solutions are approved by many prime contractors in the aerospace and defense markets, including Boeing, Honeywell, GE, Lockheed Martin and Northrop Grumman.

SERVICES

Overbraiding of customer-supplied products, from simple hose to complex wiring harnesses, specializing in harnesses with multiple breakouts. Other services include:

- » AOG repairs of harness braiding with 24-48 hour turnaround
- » Custom bobbin winding to your specification

PRODUCTS

Items stocked for immediate shipment from 1/16" to 3" ID:

- » SF2600® Braided ceramic sleeving and tape
- » SF398® Black Nylon sleeving per A-A-59301

APPLICATIONS

Aerospace, Military, Industrial, Heavy Equipment, Power Generation and Automotive



Custom Overbraiding

COMPARATIVE ANALYSIS OF COMMON TEXTILE PROPERTIES

Textile Type	3M™ Nextel™ Ceramic	Fiberglass (S Glass)	Fiberglass (E Glass)	Flame-resistant Meta-aramid	Nylon 6.6	Polyester	PTFE	Para-aramid
Specification	N/A	Mil-R-60346 Type IV, Class I	Mil-Y-1140	Mil-C-572, Type PAA	Mil-C-572, Type Polyimide, Form Y, VT295	Mil-C-572, Type PSTR, Form Y, VT258	N/A	AMS3901A
Abrasion Resistance	Poor	Poor	Poor	Good	Excellent	Excellent	Good	Good
Heat Resistance	Excellent	Very Good	Good	Good	Fair	Very Good	Very Good	Very Good
Flame Retardancy	Very Good	Will Not Burn	Will Not Burn	Will Not Melt	Fair	Flammable	Will Not Burn	Will Not Melt
Acid Resistance	Good	Good	Good	Good	Fair-Good	Good	Very Good	Fair-Good
Alkali Resistance	Good	Good	Good	Good	Good	Fair	Very Good	Good

The above chart represents a qualitative comparison of material properties and should be used as a general guide only.

PROPERTIES OF COMMON TEXTILE

Textiles	Fiber Type	Temperature Rating, Continuous	Breaking Tenacity (gms/denier)	Tensile Strength ('000 psi / Mpa)	Breaking Elongation	Specific Gravity (gms/cc)
3M™ Nextel™ 440	Yarn	+2500°F (1371°C)	N/A	300 (2068)	1.1%	3.05
3M™ Nextel™ 312	Yarn	+2200°F (1204°C)	N/A	250 (1723)	1.2%	2.70
Astroquartz®	300 2/2 - 480 Filament	+1832°F (1000°C)	N/A	870 (5998)	4.6%	2.20
Fiberglass (S Glass)	Yarn	+1000°F (538°C)	19.8	709 (4888)	5.7%	2.48
Fiberglass (E Glass)	Yarn	+1000°F (538°C)	15.3	500 (3447)	4.8%	2.54
Flame-resistant Meta-aramid	Yarn	+500°F (260°C)	4.9	90 (620)	28.0%	1.38
Nylon 6.6	High Tenacity Monofilament & Multifilament	+350°F (175°C)	8.8	40-134 (275-923)	21.1%	1.14
Polyester	Regular Tenacity Monofilament & Multifilament	+350°F (175°C)	9.5	50-99 (344-682)	13.4%	1.38
PTFE	Monofilament & Multifilament	+350°F (175°C)	2.0	14-50 (96-344)	19.0%	2.10
PEEK	High Tensile & Tenacity Monofilament	+482°F (250°C)	6.5	12-15 (82-103)	20.0%	1.32
Para-aramid	29 Filament	+300-350°F (149-177°C)	23.0	520 (3585)	3.6%	1.44
Para-aramid	49 Filament	+300-350°F (149-177°C)	23.6	550 (3792)	2.4%	1.44
ECTFE	ECTFE Monofilament	+302°F (150°C)	2.0	45 (310)	25.0%	1.68

COMMON SLEEVING

Product No.	Description	Mil Spec
SF2600	Braided Ceramic Sleaving	
SF398	Black Nylon Sleaving	A-A-59301, Mil-I-47203, Mil-S-47053
SF440	Heavy Wall E Glass	
SF880	E Glass Sleaving	
SF1200	S Glass Sleaving	
GB440	Nextel 440	

COMMON METAL BRAID

Metal	Mil Spec
Stainless Steel	QQ-W-423, ASTM-A-313
Tin-Plated Copper	A-A-59569C, QQ-B-575
Nickel-Plated Copper	A-A-59569C, QQ-B-575, ASTM-B-355
Silver-Plated Copper	A-A-59569C, QQ-B-575

Note: These standard specifications have been met with the use of test equipment and procedures developed by CarlisleIT. This sales sheet does not constitute a warranty that the product will meet the above specifications while used in specific applications or attached to specific test equipment.