Fiberglass Insulation Sleeving

Heat Treated / Vinyl Coated / Acrylic Coated / Silicone Coated

Heat Treated Fiberglass: Mil-Y-1140- Braided fiberglass sleeving designed for applications up to 650C. Provides maximum flexibility, expandability and flame resistance according to U VW-1 standards with lowest cost of all sleevings. The material is heat treated to remove all organic material and to render the glass braid fray-resistant.

Vinyl Coated Fiberglass: Mil-I-3190/2- Coated with a tough vinyl plastisol formulated for maximum heat resistance and dielectric strength. This sleeving is the toughest and most flexible of the insulating sleevings; capable of being pushed back, expanded, stretched, flattened, bent into any shape desired or knotted without any loss of dielectric strength or stability. All three grades are UL VW-1 rated.

Acrylic Coated Fiberglass: Mil-I-3190/3- Coated with a flexible, thermally stable, fully cured acrylic resin. Available in four grades ranging from 8000v-1500v. This material is recommended for applications requiring continuous operating temperatures to 155C. Acrylic coated FBG sleevings offer excellent cut-through resistance and compatibility with most varnishes, resins and wire enamels.

Silicone Rubber Coated Fiberglass: Mil-I-3190/6(Grade A only)-Fiberglass sleeving coated with a silicone formulation to provide good dielectric strengtha and exceptional flexibility in extreme temperature ranges. This material is unaffected by temperatures to +200C and retains flexibility as low as -70C. All three grades offer resistance to ozone, corona, radiation, moisture, compression set, weathering fungus, and chemical attack.

Material	Operating Temperature	Dielectric Strength
Heat Treated FBG Sleeving	+240C	Space Factor
Vinyl Coated FBG Sleeving	-30C - 130C	
GR A-1		8000 volts min Avg
GR B-1		4000 volts min Avg
GR C-1		2500 volts min Avg
Acrylic Coated FBG Sleeving	-30C - 155C	
GR A-1		8000 volts min Avg
GR B-1		4000 volts min Avg
GR C-1		2500 volts min Avg
Silicone Coated FBG Sleeving	-70C - 220C	
GR A-1		8000 volts min Avg
GR B-1		4000 volts min Avg
GR C-1		2500 volts min Avg

Mil-I-3190-	AWG Size	ID Max	ID Min	Nom ID	Wall thickness	Mil-I-3190	AWG Size	ID Max	ID Min	Nom ID	Wall thickness
01	#24	.027	.020	.022	.030	16	#6	.178	.162	.166	.045
02	#22	.032	.025	.027	.030	17	#5	.198	.182	.186	.045
03	#20	.039	.032	.034	.030	18	#4	.224	.204	.208	.045
04	#18	.049	.040	.042	.030	19	#3	.249	.229	.234	.045
05	#17	.054	.045	.047	.030	20	#2	.278	.258	.263	.055
06	#16	.061	.051	.053	.030	21	#1	.311	.289	.294	.055
07	#15	.067	.057	.059	.030	22	#0	.347	.325	.330	.055
08	#14	.074	.064	.066	.045	23	3/8"	.399	.375	.387	.055
09	#13	.082	.072	.076	.045	24	7/16"	.462	.438	.450	.065
10	#12	.091	.081	.085	.045	25	1/2"	.524	.500	.512	.065
11	#11	.101	.091	.095	.045	26	5/8"	.655	.625	.640	.065
12	#10	.112	.102	.106	.045	27	3/4"	.786	.750	.768	.075
13	#9	.124	.114	.118	.045	28	7/8"	.911	.875	.893	.075
14	#8	.141	.129	.133	.045	29	1"	1.036	1.000	1.018	.075

*Above values are typical performance data and should not be used as design data.