



AGS

AGS is a halogen-free acrylic impregnated heat treated glass braided sleeve with a continuous operating temperature up to +155°C. It has a thermal classification of Class F and is available in several voltage grades, in many colours, and in sizes up to 25mm as standard. This long established industry standard for Class F insulation is valued for its abrasion resistance and flexibility whereby the sleeve maintains electrical properties even after flexing. As it retains major properties up to 450°C (with progressive degradation of resin and changes in colour after 190°C) it can also operate above its thermal classification in the short-term. It has excellent resistance to oils, fluids and chemicals and is compatible with most insulating varnishes. Acrylic coated glass braid is often used in applications such as relays, radio circuits, transformers, domestic appliances and lead/crossover protection on motors. It will withstand tough assembly handling.

TECHNICAL DATA

- **OPERATING TEMPERATURE**
-25°C-+155°C
- **FLAME RETARDANT**
Self extinguishing
- **COLOURS**
Black, Yellow, Red, Other colours available upon request
- **SIZES**
1.5mm – 25mm
- **PACKING**
Reels, cut to length, cut sleeves
- **APPROVALS**
IEC 60684-3, UL approval, RoHS Compliant
- **APPLICATIONS / INDUSTRIES** General, Commercial, Electrical, Electronics, Industri-

Properties	Typical Values
GENERAL	
Operating temperature	-25°C – + 155°C
Short-term peak temperature	Retains major properties up to 450°C , but progressive colour change and resin loss after 190°C
PHYSICAL	
Mechanical resistance	Excellent abrasion resistance, good cut through resistance MIL-T-5438, ASTM D 876
THERMAL	
Flammability	Extinguishes within 60s, halogen free IEC 60684 Pt2 Cl 6 meth. A

Thermal Classification	Class F	MIL-I-003190
Heat shock (4hrs)	48hrs at 180°C, no visible cracking, or detachment or discolouration of coating	IEC 60684 Pt 2 Cl 13
Low temperature flexibility (4hrs @ -55°C)	at -15°C, no visible cracking or detachment of coating	IEC 60684 Pt 2 Cl 14
ELECTRICAL		
Dielectric strength	1.0, 3.0 & 8.0kV	IEC 60684, UL 1441
CHEMICAL		
Chemical resistance	Compatible with most insulating resins, excellent resistance to most oils, fluids and aggressive chemicals	

Size (mm)	Supplied diameter (mm)	Nominal wall thickness (mm)
0.5	0.5	0.25
0.8	0.8	0.25
1	1.0	0.25
1.5	1.5	0.25
2	2.0	0.25
2.5	2.5	0.25
3	3.0	0.25
3.5	3.5	0.25
4	4.0	0.3
5	5.0	0.35
6	6.0	0.35
8	8.0	0.35
10	10.0	0.35
12	12.0	0.40
14	14.0	0.50
16	16.0	0.50
18	18.0	0.50
20	20.0	0.50

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