

# Customer Specification PART NO. GRP12011/4

# Construction

1) Tubing Type	Expandable Sleeving	
2) Tubing Material	Flame Retardant Braided Polyester	
3) Minimum Supplied ID(In)	0.750	
4) Maximum Expanded ID (In)	1.750	
5) Nominal Wall Thickness +/- 0.005(In)	0.025	
6) Number of Carriers	96	
7) Number of Yarns	3	
8) Total Number of Monofilaments	288	
9) Color(s)	BLACK WITH WHITE TRACER THREAD, WHITE WITH BLACK TRACER THREAD	

**Applicable Specifications** 

1) UL	VW-1	
	UZKX2	
2) Military	MIL-I-631	

### Environmental

1) EU Directive 2002/95/EC(RoHS):		
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.	
2) REACH Regulation (EC 1907/2006):		
	This product does not contain any of the 16 substances listed on the European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.	
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	

# **Properties**

Physical &Mechanical Properties				
1) Temperature Range	-75 to 125°C			
2) Tensile Strength	55000psi, Min	ASTM D638		
Electrical Properties				
Chemical Properties				
1) Corrosion(0°C,16hrs)	no corrosion	AMS-DTL-23053		
2) Fungus Resistance	Pass	AMS-DTL-23053		
3) Halogen Free	Yes			
4) Lead Free	Yes			

#### Other

#### Packaging

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742)

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#### RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: GRP12011/4

GRP12011/4, RoHS-Compliant Commencing With7/1/2006Production

This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.** 

Substance	<b>Maximum Control Value</b>
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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