## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: GRP110NF	Issue:	6
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	Effective Date:	3/8/2013

#### A. Construction

1) Tubing Type

Expandable Sleeving

- 2) Tubing Material
- 3) Color(s)

Braided Polyethelene Terephthalate BLACK OR NATURAL

Part Number	Minimum	Maximum	Nominal Wall	Number of	Number of	Total Number of
	Supplied ID	Expanded ID	Thickness +/-	Carriers	Yarns	Monofilaments
	(ln)	(In)	0.005 (In)			
GRP-110NF18	0.125	0.250	0.024	32	3	96
GRP-110NF14	0.156	0.438	0.024	40	3	120
GRP-110NF12	0.250	0.750	0.024	64	3	192
GRP-110NF34	0.625	1.000	0.024	80	3	240
GRP-110NF114	1.000	1.500	0.024	120	3	360
GRP-110NF112	1.250	2.000	0.024	120	4	480

### B. Applicable Specifications

1)	UL	UZKX2
2)	CSA International	5836 01
o,	N 41114	

3) Military MIL-I-631

# C. Environmental Compliance

1) RoHS Directive (2011/65/EU):

All materials used in the manufacture of this part meet the requirements of European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <u>RoHS C of C</u>.

REACH Regulation (EC 1907/2006):

This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see <u>Alpha's REACH SVHC</u> <u>Declaration</u>.

### 3) California Proposition 65: The outer surface materials used in the manufacture of this part meet the

requirements of	California Proposition 65.
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D.	Phy	ysical & Mechanical Properties		
	1)	Temperature Range	-75 to 125°C	
	2)	Tensile Strength	85000psi, Min	ASTM D638
Ε.		ctrical Properties		
F.	Ch	emical Properties		
	1)	Water Absorption	0.08%, Max	ASTM D570
	2)	Corrosion(0°C,16hrs)	no corrosion	AMS-DTL-23053
	3)	Fungus Resistance	Pass	AMS-DTL-23053
	4)	Halogen Free	Yes	
	5)	Lead Free	Yes	
G.	Oth			
	1)	Packaging		
		a) GRP-110NF18		
		500 FT, 100 FT		
		b) GRP-110NF14		
		500 FT, 100 FT		
		c) GRP-110NF12		
		500 FT, 100 FT		
		d) GRP-110NF34		
		500 FT, 100 FT		

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GRP-110NF114 e)

250 FT, 50 FT

f) GRP-110NF112

250 FT, 50 FT

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