## ALPHA WIRE **CUSTOMER PRODUCT SPECIFICATION**

Part Number: GRP110NF Issue: 6

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Construction

Expandable Sleeving **Tubing Type** 

**Tubing Material** Braided Polyethelene Terephthalate 3)

**BLACK OR NATURAL** Color(s)

Part Number	Minimum Supplied ID (In)	Maximum Expanded ID (In)	Nominal Wall Thickness +/- 0.005 (In)	Number of Carriers	Number of Yarns	Total Number of Monofilaments
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 CSA International 5836 01

C. Environmental Compliance

1) RoHS Directive (2011/65/EU), EU Directive 2015/863/EU (RoHS3):

All materials used in the manufacture of this part meet the requirements of European Directive 2011/65/EU and the amending Directive 2015/863/EU of 4 June 2015 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 RoHS C of C.

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 Alpha's REACH SVHC

ASTM D638

California Proposition 65:

Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

D. Physical & Mechanical Properties

Temperature Range -75 to 125°C 2) Tensile Strength 85000psi, Min

E. Electrical Properties

F. Chemical Properties

Water Absorption 0.08%, Max ASTM D570 1) 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. Other

1) Packaging

a) GRP-110NF18

CR6-6.5: 6 x 6.5 x 3.25 Max. 5 pieces/Min length 20 FT. 500 FT CR3-15: 3 x 5.625 x 3.25 Max. 2 pieces/Min length 20 FT. 100 FT

GRP-110NF14

500 FT CR6-6.5: 6 x 6.5 x 3.25 Max. 5 pieces/Min length 20 FT. 100 FT 3 x 5.625 x 3.25 Max. 2 pieces/Min length 20 FT. CR3-15:

GRP-110NF12

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	500 FT 100 FT	CR6-10.5: CR3-15:	6 x 10.5 x 3.25 Max. 5 pieces/Min length 20 FT. 3 x 5.625 x 3.25 Max. 2 pieces/Min length 20 FT.
d)	GRP-110NF34 500 FT 100 FT	CR6-10.5: CR3-15:	6 x 10.5 x 3.25 Max. 5 pieces/Min length 20 FT. 3 x 5.625 x 3.25 Max. 2 pieces/Min length 20 FT.
e)	GRP-110NF114 250 FT 50 FT	CR3.75-10.5: CR3-15:	3.75 x 10.5 x 3.25 Max. 4 pieces/Min length 20 FT. 3 x 5.625 x 3.25 Continuous length
f)	GRP-110NF112 250 FT 50 FT	CR6-10.5: CR3-15:	6 x 10.5 x 3.25 Max. 4 pieces/Min length 20 FT. 3 x 5.625 x 3.25 Continuous length

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