ALPHA WIRE **CUSTOMER PRODUCT SPECIFICATION**

Part Number: GRP110NF	Issue:	6
Page 1 of 2 Pages	Issue Date:	2/21/2013
	Effective Date:	3/8/2013

A. Construction

Tubing Type 1)

Expandable Sleeving

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

Braided Polyethelene Terephthalate BLACK OR NATURAL

Part Number	Minimum Supplied ID	Maximum Expanded ID	Nominal Wall Thickness +/-	Number of Carriers	Number of Yarns	Total Number of Monofilaments
	(In)	(In)	0.005 (ln)	Caller		
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

D.

Ε. F.

G.

UZKX2 5836 01

CSA International 2) C. Environmental Compliance

 $\sim (2011/6E/EU)$ EU Directive 2015/863/EU (BoHS3)

	1)	RoHS Directive (2011/65/EU	J). EU Directive	2015/863/EU (RoHS3):		
	,	, , , , , , , , , , , , , , , , , , ,		sed in the manufacture of this part m	eet the requirements of	
				ctive 2011/65/EU and the amending		
				arding the restriction of use of certai		
				electronic equipment. No Exemptio		
				this item. Consult Alpha Wire's we	eb site for <u>RoHS C of C</u> .	
	2)	REACH Regulation (EC 190				
			This product d	pes not contain Substances of Very	High Concern (SVHC) listed	
			on the Europe	an Union's REACH candidate list in a	excess of 0.1% mass of the	
				-date information, please see Alpha		
			Declaration.			
	3)	California Proposition 65:		arning labels based on the Consent	Judament Please see	
	0)	California i roposition co.				
	Dhy	Alpha's CA Prop 65 Statement for more information. Physical & Mechanical Properties				
•	1)		-75 to 1	0500		
		Temperature Range				
	2)	Tensile Strength	85000p	SI, MIIN	ASTM D638	
•		ctrical Properties				
•		emical Properties				
	1)	Water Absorption	0.08%,		ASTM D570	
	2)	Corrosion(0°C,16hrs)	no corro	osion	AMS-DTL-23053	
	3)	Fungus Resistance	Pass		AMS-DTL-23053	
	4)	Halogen Free	Yes			
	5)	Lead Free	Yes			
	Óth	ner				
	1)	Packaging				
	,	a) GRP-110NF18				
		500 FT	CR6-6.5:	6 x 6.5 x 3.25 Max. 5 pieces/Min I	enath 20 FT	
		100 FT	CR3-15:	3 x 5.625 x 3.25 Max. 2 pieces/M		
		10011	0110-10.	5 x 5.025 x 5.25 Max. 2 pieces/ini		
		b) GRP-110NF14				
		,		GyGEYDDE May Enigona/Min	anath 20 FT	
		500 FT	CR6-6.5:	6 x 6.5 x 3.25 Max. 5 pieces/Min I		
		100 FT	CR3-15:	3 x 5.625 x 3.25 Max. 2 pieces/M	in length 20 FT.	

GRP-110NF12 C)

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications

specifications described interent are subject to enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of oninscience and to stranger number of the enrors of the enrors of oninscience and the enrors of the or in connection with the use, or inability to use, the information or specifications described herein.

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	500 FT 100 FT	CR6-10.5: CR3-15:	Max. 5 pieces/Min le Max. 2 pieces/Min l	
d)	GRP-110NF34 500 FT 100 FT	CR6-10.5: CR3-15:	Max. 5 pieces/Min le Max. 2 pieces/Min l	
e)	GRP-110NF114 250 FT 50 FT	CR3.75-10.5: CR3-15:	25 Max. 4 pieces/Min Continuous length	n length 20 FT.
f)	GRP-110NF112 250 FT 50 FT	CR6-10.5: CR3-15:	Max. 4 pieces/Min le Continuous length	ngth 20 FT.

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