



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Flame Retardant Standard Weight Nylon HGFR Series

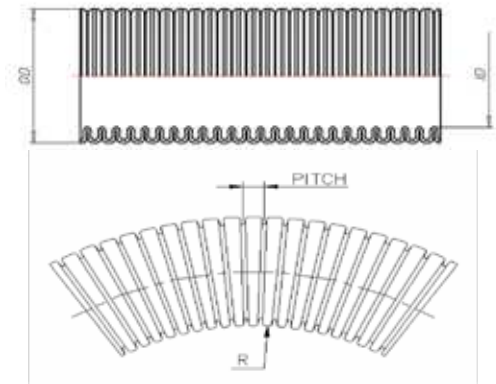
A standard weight corrugated conduit made of a flame retardant material for use in applications in which high fire protection and low flammability are primary requirements. Easy to cut and use, the material is highly resistant to solvents and oils. Combine with HelaGuard Non Metallic Fittings for IP66 rating or greater protection against water, wind and dirt.



Conduit Size		Euro Size	Pitch	HellermannTyton Part Number	Manufacturer Part Reference	Outside Dimension (OD)		Inside Dimension (ID)		Minimum Bend Radius	Compression Strength	Weight
in.	mm	(NW)	F or C			in	mm	in	mm	mm	kg/100mm	lbs / foot
5/16	13	10	F	HG-FR0310	FPR13	0.51	13.0	0.39	9.8	25	75	0.019
3/8	16	12	F	HG-FR0380	FPR16	0.63	15.8	0.47	11.8	35	60	0.026
1/2	21	17	F	HG-FR0500	FPR21	0.84	21.2	0.66	16.7	45	75	0.04
3/4	28	23	C	HG-FR0750	FPR28	1.13	28.5	0.86	21.7	50	90	0.067
1	34	29	C	HG-FR1000	FPR34	1.36	34.5	1.11	28.1	60	90	0.091
1.25	42	36	C	HG-FR1250	FPR42	1.68	42.5	1.40	35.5	70	100	0.111
1.5	54	48	C	HG-FR1500	FPR54	2.15	54.5	1.86	47.2	80	100	0.158

Technical Properties and Performance	
Property	Rating
Material: Standard Weight Nylon (Highly Flame Retardant)	Polyamide Nylon 6 Flame Retardant (PA6-FR)
Highly Flexible with excellent fatigue life	Yes
IP (Ingress Protection) rating with HG (FPA) fittings	IP66
IP (Ingress Protection) rating with HGL (FPAX) fittings	IP66+67+68+69K
Temperature Range-Static	-40°C to +120°C
Temperature Range-Dynamic	-20°C to +100°C
Displays self recovery if crushed	Yes
Water and Dust resistant	Yes
Abrasion Resistant	Yes
High Impact Strength (at -25° C)	> 6 Joules
Vibration and Shock Resistance to EN 61373 Cat 2 (TUV Report 75908286)	Yes
UV Resistance (UL Report No. 13CA50836)	Yes
UL Recognized (File No. E229161)	Yes
Compression Strength: (Tested at 21mm size)	75kg/100mm
Pull-off (Tensile) Strength (Tested at 21mm size)	40kg FPA & FPAX fittings
Country of Origin	United Kingdom
Pull-off (Tensile) Strength (Tested at 21mm size)	40kg HG & HGL fittings

Fire Performance	
Limiting Oxygen index to ISO 4589 (RAPRA Report No. 41060)	35.70%
Flame Retardancy to UL 94 (RAPRA Report No. 39934)	V0
Ignition and fume rating to NFF16-101/2 (Exova Report No. 197374, 197370, 197381 & 197384)	I2F2
Maximum smoke opacity to BS6853 annex DD8.3 (RAPRA report 38984)	A <sub>0</sub> = 0.01
Toxicity Index to BS6853 B.1 (RAPRA Report No. 41060)	r = 0.99
Ignitability Index to BS6853	Cat 1a Int & Ext
Ignitability Index to AS1530.3 (CISRO report No. FNE8199)	8
Flame Propagation index to AS1530.3 (CISRO report No. NE8199)	0
Heat Release Index to AS1530.3 (CISRO report No. FNE8199)	2
Smoke Release Index to AS1530.3 (CISRO report No. FNE8199)	3
Halogen Acid Gas content to CEI EN 50267-2-1 (IMQ Report No. 01SD00114)	< 0.1
Reaction to Fire Test to EN ISO 11925-2 (IQM Report No. 01SD00114)	F <sub>s</sub> < 150
Toxicity Index to CEI 20-377 (IMQ Report No. 01SE00036)	1.98 In 60s
Self Extinguishing to EN 61386-1 (BSI Report No. 2381 / 7847798)	Yes
Glow wire ignition test to IEC 60695-2 (Exova Report No. 179390)	850° C
Toxic Fumes emissions to 1 / 085A1 (CERAM Report No. 20053, Butterworth Report No. BL8/0237, RAPRA Report No. 41060)	Yes
Burning Behavior to DIN5510 (CSI Report No. 15877 & 15878)	S4 SR2 ST2
Classification to EN 45545 (Exova Report No. 19374, 197384, 335755)	HL3
Flammability to ATSM E162, Smoke to ASTM E662 (Exova Report No. 14-002-307)	Yes



Conduit complete with FPA fitting



**Warranty Policy** HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses. Every effort is made to ensure accuracy and completeness when describing the technical properties of these products.