



Flame Retardant Standard Weight Nylon HGFR Series

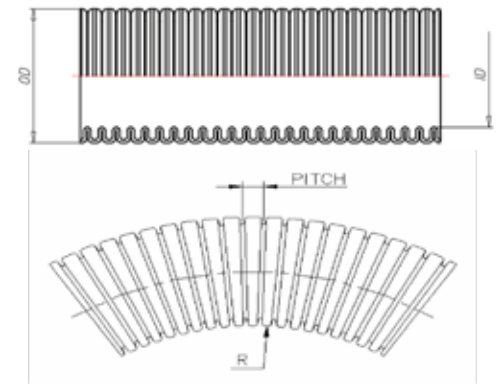
A standard weight corrugated conduit made of a flame retardant material for use in applications in which high fire protection and low flammability are primary requirements. Easy to cut and use, the material is highly resistant to solvents and oils. Combine with HelaGuard Non Metallic Fittings for IP66 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 ₀ = 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 _s < 150 |
| Toxicity Index to CEI 20-37/7 (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.