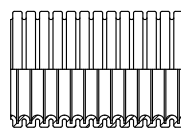
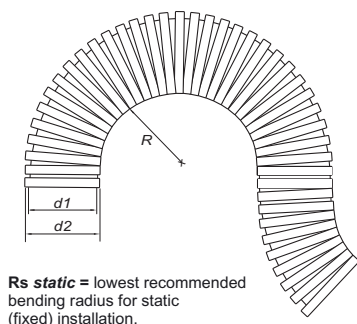


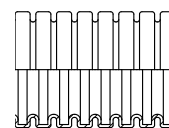
PHG conduit / tubing is produced from specially modified polyamide 6. This heavy duty material offers outstanding self-extinguishing characteristics and is halogens, phosphor and cadmium free. Owing to its self-extinguishing properties and low smoke gas development, PHG is used in the mining industry on a variety of applications including mobile and stationary mining equipment. PHG's distinctive green colour clearly identifies electrical wiring from hydraulic applications in darkened environments.



- High-grade, specially formulated polyamide 6
- Halogens, phosphor and cadmium free
- Good weather and UV resistance
- Good mechanical strength (compression / impact)
- Self-extinguishing with very low smoke development
- Good temperature resistance
- Temperature range: -40°C(-40°F) to 120°C(248°F)
Short-term to 150°C(302°F)



Fine Profile F
Tight bend radius



Coarse Profile C
High pull-out strength

Specifications are subject to change without notice

| Order No. | Conduit Size | | Trade Size | | d1 | | d2 | | Rs Static | | PU | |
|-------------|--------------|--|------------|-------|------|------|------|------|-----------|------|----|-------|
| | NW | | mm | in | mm | in | mm | in | mm | in | m | ft |
| PHG-FG07.50 | 7 | | 10 | 1/4 | 6.2 | 0.24 | 10.0 | 0.39 | 15.0 | 0.59 | 50 | 164.0 |
| PHG-FG10.50 | 10 | | 12 | 5/16 | 9.6 | 0.38 | 12.8 | 0.50 | 20.0 | 0.79 | 50 | 164.0 |
| PHG-FG12.50 | 12 | | 16 | 3/8 | 12.0 | 0.47 | 15.7 | 0.62 | 30.0 | 1.18 | 50 | 164.0 |
| PHG-FG17.50 | 17 | | 20 | 1/2 | 16.6 | 0.65 | 21.1 | 0.83 | 35.0 | 1.38 | 50 | 164.0 |
| PHG-CG17.50 | 17 | | 20 | 1/2 | 16.1 | 0.63 | 21.1 | 0.83 | 35.0 | 1.38 | 50 | 164.0 |
| PHG-FG23.50 | 23 | | 25 | 3/4 | 22.6 | 0.89 | 28.4 | 1.12 | 40.0 | 1.57 | 50 | 164.0 |
| PHG-CG23.50 | 23 | | 25 | 3/4 | 22.4 | 0.88 | 28.5 | 1.12 | 40.0 | 1.57 | 50 | 164.0 |
| PHG-FG29.50 | 29 | | 32 | 1 | 29.0 | 1.14 | 34.5 | 1.36 | 50.0 | 1.97 | 50 | 164.0 |
| PHG-CG29.50 | 29 | | 32 | 1 | 28.3 | 1.11 | 34.7 | 1.37 | 50.0 | 1.97 | 50 | 164.0 |
| PHG-FG36.25 | 36 | | 40 | 1-1/4 | 36.5 | 1.44 | 42.4 | 1.67 | 55.0 | 2.17 | 25 | 82.0 |
| PHG-CG36.25 | 36 | | 40 | 1-1/4 | 35.8 | 1.41 | 42.4 | 1.67 | 55.0 | 2.17 | 25 | 82.0 |
| PHG-FG48.25 | 48 | | 50 | 1-1/2 | 47.5 | 1.87 | 54.4 | 2.14 | 65.0 | 2.56 | 25 | 82.0 |
| PHG-CG48.25 | 48 | | 50 | 1-1/2 | 46.7 | 1.84 | 54.5 | 2.15 | 65.0 | 2.56 | 25 | 82.0 |

| Application performances | Characteristics | Unit | Standards Specifications | Remark |
|--------------------------|--|----------|--------------------------|----------------|
| Temperature range | - 45 / to +120 - 49 / to +248 | °C °F | IEC EN 61386 | flexible |
| Temperature (short-term) | 150 (500 h); 165 (100 h) 302 (500 h); 329 (100 h) | °C °F | IS FIP | |
| Filling ratio (max.) | 70 | % | IS FIP | recommendation |

| Mechanical performances | | | | |
|-------------------------|------------|----|--------------|--|
| Impact strength | 2 / 100 mm | KG | IEC EN 61386 | - 45°C / - 49°F |
| Peak load value | 320 | N | IEC EN 61386 | |
| Flexing test | 5.000 | | IEC EN 61386 | - 45°C / - 49°F +120°C / +248°F PHG NW17 |
| Pull out strength | 250 | N | IEC EN 61386 | 23°C / 73°F GRIPLOCK NW 17 |

| Fire safety performances | | | | |
|------------------------------------|-----------------------|----------|---------------|--|
| Free from halogens and cadmium | yes | | | |
| Fire classification | V2 | | UL 94 | |
| Fire characteristic of the product | self-extinguishing | | UL 1696 | |
| Oxygen index | >27 | % | EN ISO 4589-2 | |
| Glow wire test | 750 1382 | °C °F | IEC 60695 | |
| Spread of fire | non flame propagating | | IEC EN 61386 | |

| Weathering performances | | | | |
|-------------------------------|-----------------|--|--------|---------------|
| UV and weathering performance | average to good | | IS FIP | 5 to 10 years |