

# HILFLEX PG - Braided monofilament sleeving, halogen free material



### Applications

Hilflex PG provides mechanical protection and abrasion resistance for hydraulic hoses, tubing and wiring harnesses. The expandable nature of the braid affords ease of fitting over components with the spring back of the produce precluding other fixings. The sleeve holding itself in situ.

Standard Colours & Colour Codes

Black - 0	Grey - 8
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Other colours available upon request



### Features and Benefits

Hilflex PG is a self extinguishing expandable close weave, Halogen Free sleeving produced from UL Rated braided polyethylene terephthalate monofilaments. The special braid construction permits the sleeving bore to be expanded up to 300% and a particular feature is the retention of roundness. Hilflex PG will exhibit self-extinguishing characteristics and will operate at temperatures within the range -70°C to +150°C.

Hilflex PG has excellent resistance to damage by mechanical abrasion and repeated flexing. The monofilaments will resist attack by salt water, oils and most common fuels and solvents. The high bore expansion and retention of roundness makes Hilflex PG sleeveings ideal for use in the manufacture of wiring looms, especially where cables are connected to moving parts and are constantly flexed. Hilflex PG is used extensively as a harness sleeve, the open construction of the braid allowing branch terminations to be made through the sleeve wall, which greatly speeds manufacture. Hilflex PG is cut utilising the hot melt method. This melts the monofilaments during the cutting action, bonding the braid crossover points and preventing fraying of the cut end.

RECOMMENDED FOR COVERING CABLES OR CABLE BUNCHES OF OVERALL DIAMETER	ORDERING DESCRIPTION
1mm - 5mm	HILFLEX-PG-3.0-colour code-SP
2mm - 7mm	HILFLEX-PG-4.0-colour code-SP
3mm - 9mm	HILFLEX-PG-5.0-colour code-SP
4mm - 11mm	HILFLEX-PG-6.0-colour code-SP
5mm - 12mm	HILFLEX-PG-8.0-colour code-SP
7mm - 15mm	HILFLEX-PG-10.0-colour code-SP
8mm - 17mm	HILFLEX-PG-12.0-colour code-SP
10mm - 20mm	HILFLEX-PG-15.0-colour code-SP
14mm - 26mm	HILFLEX-PG-20.0-colour code-SP
18mm - 34mm	HILFLEX-PG-25.0-colour code-SP
20mm - 40mm	HILFLEX-PG-30.0-colour code-SP
30mm - 50mm	HILFLEX-PG-40.0-colour code-SP
45mm - 75mm	HILFLEX-PG-50.0-colour code-SP
50mm - 80mm	HILFLEX-PG-60.0-colour code-SP
85mm - 115mm	HILFLEX-PG-100.0-colour code-SP

### Performance

Construction	Braided Polyethylene Terephthalate Monofilaments
Filament size	0.22mm Diameter
Operating temperature range	-70°C to 150°C
Tensile Strength	100,00 PSI
Elongation	20%
Specific Gravity	1.31
Moisture absorption 24 hours	0.08%
Shrinkage at 180°C	4%
Melting temperature	250°C

*The data given is believed to be correct but it does not form a specification and may be subject to alteration without notification.*

*Hilltop Products (Insulation Sleeveings) Ltd cannot be aware of all the customer applications and processes for our products, hence, Hilltop Products (Insulation Sleeveings) Ltd make no warranty confirming the fitness or suitability of a product for any particular use.*

*Any proposed application of a Hilltop Products (Insulation Sleeveings) Ltd product should be tested and satisfactory performance independently confirmed.*

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