

HILFLEX PG FR - Expandable braided PG sleeving (self extinguishing) - UL 224 VW-I approved



Applications

Automotive - Hilflex PG FR 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.

Cable Protection - The high bore expansion and retention of roundness makes Hilflex PG FR sleeveings ideal for use in the manufacture of wiring looms, especially where cables are connected to moving parts and are constantly flexed.

Harnesses - Hilflex PG FR 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.

Cutting - Hilflex PG FR 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.

Features and Benefits

Hilflex PG FR is an expandable flame retardant, close weave sleeving produced from braided polybutylene 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.

Standard Colours & Colour Codes

Black - 0
with Grey
identification yarn

Grey - 8
with Black
identification yarn

Hilflex PG FR will exhibit self-extinguishing characteristics and will operate at temperatures within the range -70°C to +150°C. Hilflex PG FR 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.

RECOMMENDED FOR COVERING CABLES OR CABLE BUNCHES OF OVERALL DIAMETER

ORDERING DESCRIPTION

1mm - 5mm	HILFLEX-PGFR-3.0-colour code-SP
2mm - 7mm	HILFLEX-PGFR-4.0-colour code-SP
3mm - 9mm	HILFLEX-PGFR-5.0-colour code-SP
4mm - 11mm	HILFLEX-PGFR-6.0-colour code-SP
5mm - 12mm	HILFLEX-PGFR-8.0-colour code-SP
7mm - 15mm	HILFLEX-PGFR-10.0-colour code-SP
8mm - 17mm	HILFLEX-PGFR-12.0-colour code-SP
10mm - 20mm	HILFLEX-PGFR-15.0-colour code-SP
14mm - 26mm	HILFLEX-PGFR-20.0-colour code-SP
18mm - 34mm	HILFLEX-PGFR-25.0-colour code-SP
20mm - 40mm	HILFLEX-PGFR-30.0-colour code-SP
30mm - 50mm	HILFLEX-PGFR-40.0-colour code-SP
40mm - 66mm	HILFLEX-PGFR-50.0-colour code-SP

Performance

Construction Filament size	Braided Polybutylene Terephthalate Monofilaments 0.22mm diameter
Operating temperature	-70°C to + 150°C
Tensile strength	100,000 psi
Elongation	20%
Specific Gravity	1.31
Moisture Absorption 24 hours	0.08%
Shrinkage at 180°C	4%
Flammability Test Method UL 224	VW-1
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.

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