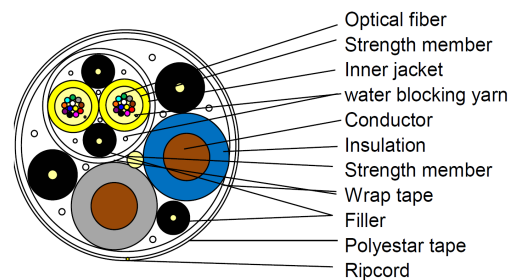




A hybrid cable designed to transmit both electrical power and optical signals in a single cable. Two electrical power conductors and two fibre optic sub units, each containing twelve bend insensitive singlemode fibers surround a metallic strain member. Incorporation of water blocking tapes and a UV stable jacket ensure long term operation in both internal and outdoor applications. The inclusion of fillers ensures the fully circular construction can be efficiently installed in ceiling or floor voids as well as conventional ducting systems



FEATURES / BENEFITS

- Circular construction prevents snagging during installation
- Bend insensitive optical fiber simplifies termination
- Singlemode fiber provides the ultimate future proof support for high bandwidth services
- Suitable for Indoor/outdoor applications

Hybriflex Bulk cable dia.012", Basic/uncreened- DC wire dia 04mm² Unshielded, 1 DC pair, SM x 12-pairs, Flame retardant jacket

Technical features

STRUCTURE

Cable Type		Hybrid (2 x 4mm ² & 24 x SMF unscreened)
Size		1/2"
Fire Performance		meets or exceeds: IEC 60754-1/-2 smoke emission, halogen free, non corrosive IEC 61034 , low smoke IEC 60332-1 flame retardant , IEC 60332-3-24 fire retardant , CPR: class Cca, S1b, d2, a1 to BS EN 13501-6:2014
Number of Fiber		24 (2 X 12F sub units)

DC POWER CABLE SPECIFICATIONS

Number of DC Pairs		1
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	4.95 (1.624)
Cross Section of Power Cable	mm ² (AWG)	4 (12)
DC Wire Information		56 x 0.31 Pure Annealed Copper (Class 5)
DC Wire Jacket Material		Blue and Grey LSZH polyolefin (colours may change in accordance with B.S. updates)
DC Wire Jacket Thickness	mm (in)	0.8 (0.031)
DC Cable Diameter	mm (in)	4.2 (0.165)
DC Standards (Meets or Exceeds)		IEC 60228



MECHANICAL SPECIFICATIONS

Cable Weight	kg/m (lb/ft)	0.25 (0.168)
Minimum Bending Radius, (Operating)	mm (in)	55 (2.16)
Minimum Bending Radius, (Installation)	mm (in)	110 (3.32)
Recommended / Maximum Clamp Spacing	m (ft)	0.6 / 1 (2 / 3.2)
Tensile Strength (Operating)		1000 (220) IEC60794-1-2 E3
Tensile Strength (Installation)		1800 (397) IEC60794-1-2 E3
Crush Resistance (Operating)		2000 IEC 60794-1-2 E3

CABLE JACKET

UV-Protection Individual and External Jacket		UV Resistance to EN 50290 2 24
Jacket Material		Flame Retardant IEC60332-1/-3-24, UV Resistance EN 50290-2-24, Halogen Free compliance to IEC60754-1/-2 , Low smoke emission to IEC61034-2
Outer Diameter Nominal	mm (in)	13.8 (0.543)

F/O CABLE SPECIFICATIONS

F/O Cable Type		2 x Dry Loose-tube fibre sub units numbered 1 and 2, fibres in Yellow LSZH jackets with aramid yarn as strength member
Number of F/O Pairs		12
Core/Clad	µm	9 /125
Secondary Protection Nominal	µm (in)	900 (0.035)
Cable Diameter mm (in)		2.5 (0.098)
F/O Cable Jacket		Yellow LSZH numbered 1 and 2
F/O Standards (Meets or Exceeds)		ITU G 657.A2, Fibre sub unit: Water penetration (no leakage)> 1m/24h optical core
Fiber Attenuation		< 0.4 dB/km @ 1310nm, < 0.3 dB/km @1550nm

TESTING AND ENVIRONMENTAL

Storage Temperature	°C (°F)	-20 to 70 (-4 to 158)
Operation Temperature	°C (°F)	-20 to 70 (-4 to 158)
Installation Temperature	°C (°F)	-20 to 70 (-4 to 158)
Jacket Specifications		Flame Retardant IEC60332-1/-3-24, UV Resistance EN 50290-2-24, Halogen Free compliance to IEC60754-1/-2 , Low smoke emission to IEC61034-2,
LSZH Specification		Halogen Free compliance to IEC60754-1/-2 , Low smoke emission to IEC61034-2

External Document Links

Notes