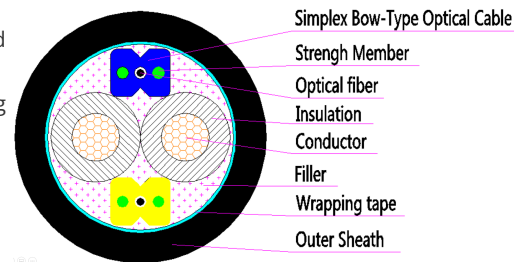




A hybrid cable designed to transmit both electrical power and optical signals in a single cable. Two electrical power conductors and two fibre optic sub units, each containing one bend insensitive singlemode fiber are surrounded by fillers. Incorporation of water blocking tapes and a UV stable jacket ensure long term operation in outdoor applications. The inclusion of fillers ensures the fully circular construction can be efficiently installed in conventional trays or ducting systems

FEATURES / BENEFITS

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



External Document Links

Notes

Technical features

STRUCTURE

Cable Type		Hybrid (2 x 1.5mm ² DC wires & 2 x 1.6mm butterfly SM fibres, 0.4mm steel wire strength members in bow-type formation)
Fire Performance		The outer sheath adopts a low-smoke, flame retardant compound to meet IEC60332-1, halogen-free, meeting CPR classification: Eca to BS EN 13501-6:2014
Number of Fiber		2

DC POWER CABLE SPECIFICATIONS

Number of DC Pairs		1
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	13.3 (4.05)
Cross Section of Power Cable	mm ² (AWG)	1.5 (15)
DC Wire Information		30 x 0.26 Pure Annealed Copper (Class 5)
DC Wire Jacket Thickness	mm (in)	0.7 (0.028)
DC Cable Diameter	mm (in)	3.1 (0.12)
DC Cable Jacket		UV stable red and blue XLPE standard compliance IEC60228

MECHANICAL SPECIFICATIONS

Cable Weight	kg/m (lb/ft)	0.108 (0.073)
Minimum Bending Radius, (Operating)	mm (in)	90 (3.543)
Minimum Bending Radius, (Installation)	mm (in)	180 (7.087)
Recommended / Maximum Clamp Spacing	m (ft)	0.8 / 1 (2.75 / 3.3)
Tensile Strength (Operating)		300 (N) IEC 60794-1-2-E
Tensile Strength (Installation)		600 (N) IEC 60794-1-2-E
Crush Resistance (Operating)		300 N /100 mm complaint to IEC 60794-1-2-E3
Crush Resistance (Installation)		1,000 N /100 mm complaint to IEC 60794-1-2-E3

CABLE JACKET

Jacket Material		UV stable black LSZH
Outer Diameter Nominal	mm (in)	9 (0.354)

**F/O CABLE SPECIFICATIONS**

F/O Cable Type		Tight buffer (2xsimplex bow-type formation 2.0mmx1.6mm and acrylate secondary protection)
Number of F/O Pairs		1
Core/Clad	µm	9 /125
F/O Cable Jacket		Colour coded Yellow + Blue LSZH sheath length marked per meter
F/O Standards (Meets or Exceeds)		ITU G 657.A2
Fiber Attenuation	dB/km	0.4 dB/km @ 1310nm, 0.3 dB/km @1550nm

TESTING AND ENVIRONMENTAL

Storage Temperature	°C (°F)	-20 to 50 (-4 to 122)
Operation Temperature	°C (°F)	-20 to 80 (-4 to 180)
Installation Temperature	°C (°F)	-10 to 50 (14 to 122)