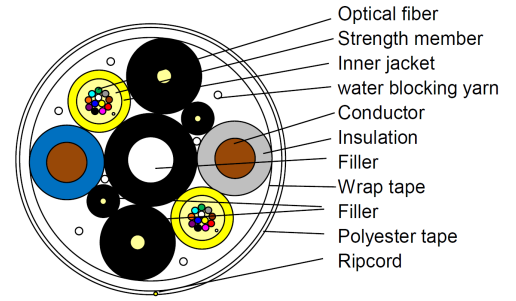




A hybrid cable designed to transmit both electrical power and optical signals in a single cable. Two electrical power conductors and two fibre optic sub units, each containing twelve bend insensitive singlemode fibers surround a non metallic strain member. Incorporation of water blocking tapes and a 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. A corrugated aluminium screen ensures a 100% screen, enabling this cable to be installed in data and power cable ducts



**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
- Corrugated screen provides the ultimate cable routing flexibility
- Suitable for Indoor/outdoor applications

Hybriflex Bulk cable dia. 012", Screened-DC wire dia 1.5mm<sup>2</sup> Unshielded, 1 DC Pair, SM fibres x 12 pairs, Flame retardant

**Technical features**

**STRUCTURE**

<b>Cable Type</b>		Hybrid (2 x 1.5mm <sup>2</sup> & 24 x SMF screened)
<b>Size</b>		1/2"
<b>Fire Performance</b>		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 B2ca, S1a, d1, a1 to BS EN 13501-6:2014

**DC POWER CABLE SPECIFICATIONS**

<b>Number of DC Pairs</b>		1
<b>Maximum DC-Resistance Power Cable</b>	Ω/km (Ω/kft)	13.3 (4.05)
<b>Cross Section of Power Cable</b>	mm <sup>2</sup> (AWG)	1.5 (16)
<b>DC Wire Information</b>		30 x 0.26 Pure Annealed Copper (Class 5)
<b>DC Wire Jacket Material</b>		Blue and Grey LSZH polyolefin (colours may change in accordance with B.S. updates)
<b>DC Wire Jacket Thickness</b>	mm (in)	0.7 (0.028)
<b>DC Cable Diameter</b>	mm (in)	3 (0.118)
<b>DC Standards (Meets or Exceeds)</b>		IEC 60228



**MECHANICAL SPECIFICATIONS**

<b>Cable Weight</b>	kg/m (lb/ft)	0.21 (0.141)
<b>Minimum Bending Radius, (Operating)</b>	mm (in)	65 (2.559)
<b>Minimum Bending Radius, (Installation)</b>	mm (in)	130 (5.118)
<b>Tensile Strength</b>	N (lb)	400 (89.92)
<b>Recommended / Maximum Clamp Spacing</b>	m (ft)	0.6 / 1 (2 / 3.2)
<b>Tensile Strength (Operating)</b>		1000 (220) IEC60794-1-2 E3
<b>Tensile Strength (Installation)</b>		1800 (397) IEC60794-1-2 E3
<b>Crush Resistance (Operating)</b>		2000 IEC 60794-1-2 E3

**CABLE JACKET**

<b>UV-Protection Individual and External Jacket</b>		UV Resistance to EN 50290 2 24
<b>Jacket Material</b>		LSZH - Black
<b>Outer Diameter Nominal</b>	mm (in)	15.6 (0.614)

**ARMOR SPECIFICATIONS**

<b>Armor Type</b>		Corrugated aluminium tape - thickness 0.2mm (0.008in)
<b>Maximum DC-Resistance of Armor</b>	Ω/km (Ω/kft)	2.42 (0.74)

**F/O CABLE SPECIFICATIONS**

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

**TESTING AND ENVIRONMENTAL**

<b>Storage Temperature</b>	°C (°F)	-20 to 70 (-4 to 158 )
<b>Operation Temperature</b>	°C (°F)	-20 to 70 (-4 to 158 )
<b>Installation Temperature</b>	°C (°F)	-20 to 70 (-4 to 158 )
<b>Jacket Specifications</b>		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
<b>LSZH Specification</b>		Halogen Free compliance to IEC60754-1/-2 , Low smoke emission to IEC61034-2

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