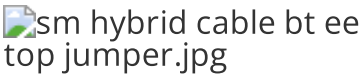




HB012-S-06U1-M4C20

Screened Hybrid Cable, 1 x 6mm² pair power cable and 8 x multimode optical fibers



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 four laser optimised ISO11801 OM4 fibers surround a non metallic strain member. A polyethylene UV stable jacket ensures long term operation in outdoor applications. The fully circular construction ensures that the cable can be efficiently installed in conventional trays or 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
- Multimode fiber provides the necessary high bandwidth demanding services
- Corrugated screen provides the ultimate cable routing flexibility
- Water penetration (no leakage) up to 1m/24h optical core
- Suitable for Indoor/outdoor applications

Technical Features

STRUCTURE

Cable Type	Hybrid : 2 x 6mm ² & 8 x MMF screened
Size	1/2"
Fire Performance	Halogen free IEC60754-1/-2 CPR: BS EN13501-6:2014 class B2ca, s1a, d1, a2
Number of DC Pairs	1
Jacket Material	Halogen free IEC 60754-1/2

MECHANICAL SPECIFICATIONS

Outer Diameter Nominal	15.8mm (0.622in)
Cable Weight	0.235kg/m (0.158lb/ft)
Minimum Bending Radius	70mm (2.756in)
Minimum Bending Radius	126mm (4.98in)
Tensile Strength	300N (73lb)
Recommended / Maximum Clamp Spacing	0.6 / 1 (2 / 3.25)
Jacket Material	Halogen free IEC 60754-1/2
Tensile Strength (Installation)	1800 (397) IEC60794-1-2 E3
Crush Resistance (Operating)	2000

**HB012-S-06U1-M4C20**Screened Hybrid Cable, 1 x 6mm² pair power cable and 8 x multimode optical fibers**DC POWER CABLE SPECIFICATIONS**

Maximum DC-Resistance Power Cable	3.3Ω/km (1.51Ω/kft)
Cross Section of Power Cable	6 mm ² (10 AWG)
DC Wire Information	84 x 0.30 PAC (Class 5)
DC Wire Jacket Material	UV stable blue and white XLPE
DC Wire Jacket Thickness	0.5mm (0.02in)
DC Cable Diameter	4.4mm (0.173in)
DC Standards (Meets or Exceeds)	IEC 60228

ARMOR SPECIFICATIONS

Armor Type	Corrugated Aluminum tube
Maximum DC-Resistance of Armor	2.42Ω/km (0.74Ω/kft)

F/O CABLE SPECIFICATIONS

F/O Cable Type	Tight-Buffer : 2 sub units, 4 fibres each
Number of F/O Pairs	4
Core/Clad	50 /125
Cable Diameter mm (in)	4.8mm (0.19in)
F/O Cable Jacket	GYFJZY-4A1a LSZH , O.D. 4.80±0.20mm
F/O Standards (Meets or Exceeds)	ISO/IEC 11801 TIA 492AAAD (OM4)
Fiber Attenuation	≤ 3.5 dB/km at 850nm; ≤ 1.5 dB/km at 1300 nm dB/km

TESTING AND ENVIRONMENTAL

Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Operation Temperature	-40°C to 85°C (-40°F to 185°F)
Installation Temperature	-20°C to 50°C (-4°F to 122°F)