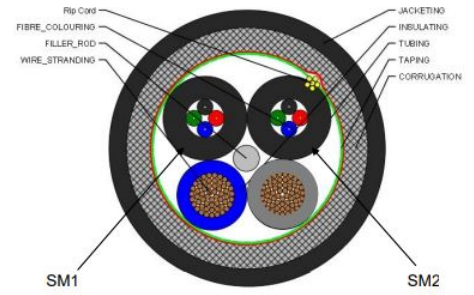




HB012-S-06U1-S4C20

Screened Hybrid Cable, 1 x 6mm² pair power cable and 8 x singlemode 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 bend insensitive singlemode 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
- Singlemode fiber provides the ultimate future proof support for high bandwidth services
- Corrugated screen provides the ultimate cable routing flexibility
- Water penetration (no leakage) up to 1m/24h optical core
- Suitable for Indoor/outdoor applications

Hybriflex Bulk cable dia.012", Screened- DC wire dia 06mm² Unshielded, 1 DC Pair, SM x 4-pairs, CPR Jacket

Technical features

STRUCTURE

| | | |
|-------------------------|--|---|
| Cable Type | | Hybrid : 2 x 6mm ² & 8 x SMF screened |
| Size | | 1/2" |
| Fire Performance | | Halogen free IEC60754-1/-2 CPR: BS EN13501-6:2014 class B2ca, s1a, d1, a2 |

DC POWER CABLE SPECIFICATIONS

| | | |
|--|-----------------------|-------------------------------|
| Number of DC Pairs | | 1 |
| Maximum DC-Resistance Power Cable | Ω/km (Ω/kft) | 3.3 (1.51) |
| Cross Section of Power Cable | mm ² (AWG) | 6 (10) |
| DC Wire Information | | 84 x 0.30 PAC (Class 5) |
| DC Wire Jacket Material | | UV stable blue and white XLPE |
| DC Wire Jacket Thickness | mm (in) | 0.5 (0.02) |
| DC Cable Diameter | mm (in) | 4.4 (0.173) |
| DC Standards (Meets or Exceeds) | | IEC 60228 |



MECHANICAL SPECIFICATIONS

| | | |
|--|--------------|----------------------------|
| Cable Weight | kg/m (lb/ft) | 0.235 (0.158) |
| Minimum Bending Radius, (Operating) | mm (in) | 63 (2.49) |
| Minimum Bending Radius, (Installation) | mm (in) | 126 (4.98) |
| Tensile Strength | N (lb) | 300 (73) |
| Recommended / Maximum Clamp Spacing | m (ft) | 0.6 / 1 (2 / 3.25) |
| Tensile Strength (Installation) | | 1800 (397) IEC60794-1-2 E3 |
| Crush Resistance (Operating) | | 2000 |

CABLE JACKET

| | | |
|--|---------|----------------------------|
| UV-Protection Individual and External Jacket | | EN 50290 2 24 |
| Jacket Material | | Halogen free IEC 60754-1/2 |
| Outer Diameter Nominal | mm (in) | 15.8 (0.622) |

ARMOR SPECIFICATIONS

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

F/O CABLE SPECIFICATIONS

| | | |
|----------------------------------|----|---|
| F/O Cable Type | | Tight-Buffer : 2 sub units, 4 fibres each |
| Number of F/O Pairs | | 4 |
| Core/Clad | μm | 9 /125 |
| Cable Diameter mm (in) | | 4.8 (0.19) |
| F/O Cable Jacket | | 250 acrylate |
| F/O Standards (Meets or Exceeds) | | ITU G 657.A2 |
| Fiber Attenuation | | ≤ 0.4 dB/km at 1310 nm; ≤ 0.25 dB/km at 1550 nm |

TESTING AND ENVIRONMENTAL

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

External Document Links

Notes