

**FONF-ME06S-XXXM**

Fiber Optic Cable Assembly, MTP12/APC Male to MTP10/APC Male + 2 x SC/APC, LSZH, Indoor



Fiber only cable assembly, 12 single mode fibers, preterminated with an MTP12 male connector on one end and an MTP10 male connector together with 2 SC/APC connectors on the other end. This assembly enables 2 fibers from an MTP12 backbone cable to be "dropped" for connection with two SC/APC connections. Suitable for indoor applications, using CPR rated Eca class LSZH, Flame retardant: IEC 61304 (min smoke emission), IEC 60754-1, Halogen Free, IEC 60332-3 (Reduced Fire Propagation) as sheath materials. Optimized for Radio over Fiber (RoF) applications, for use within the RFS "Plug and Play" RoF solution.

**Features / Benefits**

- High precision MTP and SC/APC fiber connectors provides low insertion loss, high return loss and excellent stability and durability
- Available in a range of standard or customized lengths to simplify network design
- Mechanical branching system ensures full strain relief
- All connectors are terminated and tested in controlled conditions to ensure optimum performance and reliability
- RFS' "Plug and Play" solution simplifies network design, minimizes installation/testing time and the necessary on site skills
- XXX in the product name FONF-ME06S-XXXM denotes required length (see below tables for available standard lengths)

**F**iber **O**ptic, **N**o Armour, **F**lame retardant Jacket, MTP **M**ale, **(E)**MTP Male with 2 x SC Connectors, **06** Pairs Fiber, **S**inglemode, **XXX** Meters

**Technical Features****STRUCTURE**

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Cable Type             | 12 single mode fibers (G657 A2) , LSZH jacket, yellow                                                                                       |
| Cable Diameter mm (in) | 3mm (0.118in)                                                                                                                               |
| Jacket Material        | CPR rated Eca class LSZH, Flame retardant: IEC 61304 (min smoke emission), IEC 60754-1 Halogen Free, IEC 60332-3 (Reduced Fire Propagation) |
| Number of Fiber        | 12                                                                                                                                          |

**MECHANICAL SPECIFICATIONS**

|                                 |                 |
|---------------------------------|-----------------|
| Outer Diameter Nominal          | 4.5mm (0.177in) |
| Minimum Single Bending Radius   | 45mm (1.772in)  |
| Minimum Multi Bending Radius    | 90mm (3.543in)  |
| Tensile Strength (Operating)    | 130 N           |
| Tensile Strength (Installation) | 440 N           |
| Crush Resistance (Operating)    | 300 N / 10 cm   |
| Cable Diameter mm (in)          | 3mm (0.118in)   |
| Crush Resistance (Installation) | 1000 N / 10 cm  |



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OPTICAL SPECIFICATIONS

|                          |                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| F/O Cable Type           | Loose-tube, Single Mode                                                                                                                     |
| Core/Clad                | 9 /125                                                                                                                                      |
| Cable Diameter Breakout  | 2.0 mm on the SC side                                                                                                                       |
| F/O Cable Jacket         | CPR rated Eca class LSZH, Flame retardant: IEC 61304 (min smoke emission), IEC 60754-1 Halogen Free, IEC 60332-3 (Reduced Fire Propagation) |
| Fiber Termination End 1  | MTP/APC male, single mode, yellow housing, IEC 61754-7                                                                                      |
| Fiber Termination End 2  | MTP/APC male, single mode, yellow housing, IEC 61754-7 with 2 x SC/APC simplex                                                              |
| Fiber Attenuation        | ≤ 0.36dB/km λ=1310nm ; ≤0.22dB/km λ =1550nm dB/km                                                                                           |
| Connector Insertion Loss | MTP(SM):Max. 0.35 dB @ 1310&1550nm/ IEC 61300-3-4 Method B ; SC/APC(SM):Max. 0.3 dB @ 1310&1550nm/ IEC 61300-3-4 Method B                   |
| Connector Return Loss    | MTP(SM): Min. 60 dB @ 1310&1550nm ; SC/APC(SM): Min. 60 dB @ 1310&1550nm                                                                    |

ENVIRONMENTAL

|                          |                                |
|--------------------------|--------------------------------|
| Storage Temperature      | -25°C to 70°C (-13°F to 158°F) |
| Operation Temperature    | -20°C to 60°C (-4°F to 140°F)  |
| Installation Temperature | -10°C to 55°C (14°F to 131°F)  |

VARIATION INFORMATION

|              |                 |                 |                 |                 |  |
|--------------|-----------------|-----------------|-----------------|-----------------|--|
| Model Number | FONF-ME06S-001M | FONF-ME06S-005M | FONF-ME06S-007M | FONF-ME06S-010M |  |
| Length       | 1m (3.281ft)    | 5m (16.404ft)   | 7m (22.966ft)   | 10m (32.808ft)  |  |