

FOC MT L KA - Fiber Optic Cable / Multi Tube / Loose Tube Structure / Aramid Yarns Armour

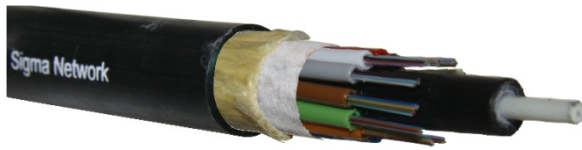
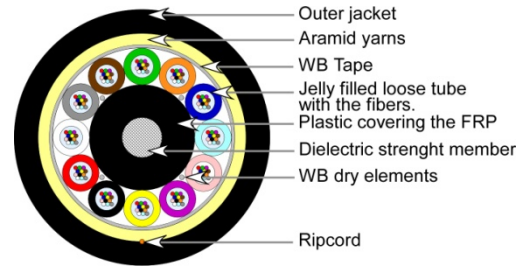


Image: 144 fo cable



Structure & composition

Fiber Reinforced Plastic (FRP) central strength member. Loose tubes are stranded around it.
 Gel filled PBT loose tube with optical fibers.
 Water blocked cable core through the use of water-swellable elements or jelly.
 Aramid yarns.
 Outer jacket. The material of this jacket is chosen taking into account some factors such as location (indoor /outdoor) or a certain flexibility.

Description & applications

Rugged cable to be ducted, stapled on wall and on cable trays applications.
 All dielectric cable suitable for aerial applications too (Spans up to 80 m.)
 Suitable for harsh environment.
 High tensile strength and crush resistance.

Specifications

| | | 12 | 16 | 24 | 32 | 32 | 48 | 64 | 96 | 128 | Standard |
|---|---------|------------|------|------|------|------|------|------|------|------|-----------------|
| Fibers cable no. > | | 12 | 16 | 24 | 32 | 32 | 48 | 64 | 96 | 128 | |
| PBT tubes no. > | | 3 | 4 | 6 | 4 | 8 | 6 | 8 | 12 | 16 | |
| Fibers per tube > | | 4 | 4 | 4 | 8 | 4 | 8 | 8 | 8 | 8 | |
| | Units | | | | | | | | | | |
| Nominal outer diameter | mm | 9,3 | 9,3 | 9,3 | 9,3 | 10,3 | 9,3 | 10,3 | 12,6 | 12,6 | |
| Nominal weight (Polyethylene) | Kg / Km | 60 | 60 | 60 | 60 | 80 | 60 | 80 | 129 | 125 | |
| Nominal weight (LSZH) | Kg / Km | 80 | 80 | 80 | 80 | 105 | 80 | 105 | 158 | 154 | |
| Minimum bend radius * | mm | 15xΦ cable | | | | | | | | | IEC 60794-1-E10 |
| Tensile strength * | N | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 2000 | 2000 | 2700 | IEC 60794-1-E1 |
| Max. allowable strength during installation | N | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2800 | 2800 | 3500 | IEC 60794-1-E1 |
| Crush resistance * | N / cm | 150 | | | | | | | | | IEC 60794-1-E3 |
| Operating temperature range * | °C | -30/75 | | | | | | | | | IEC 60794-1-F1 |

* The attenuation in a given wavelength range does not exceed the attenuation of the reference wavelength (λ) by more than 0.05 dB/Km

Cable options

For this general datasheet: core filling, outer jacket, number and fiber type must be chosen.

| Core | Jacket | Fibers no. | Fiber type |
|-------------------------|-----------------------------|------------|--|
| J Jelly | PE Polyethylene | 12 | 9/125 Single mode fiber ITU-T G.652D |
| D Water-swellable yarns | LSZH Low Smoke Zero Halogen | 48 | 62.5/125 Multimode fiber TIA/EIA 492AAAA |
| | V Polyvinylchloride | | 50/125 Multimode fiber TIA/EIA 492AAAB |
| | PU Polyurethane | | OM3 Multimode fiber TIA/EIA 492AAAC |
| | | | 128 |

Colour code

Optical fibers and tubes colour coding according to TIA-598-C :



Tubes 13 to 24 are same colour code that the first twelve but with black rings. In tube no. 20 (black) rings are white.

Nomenclature / Cable reference

| | | | | | |
|--|-------------|----------|---------------------|------------|------------|
| Complete reference | Main Family | Core | Jacket | Fibers no. | Fiber type |
| FOC MT L KA D PE 48 OF 9/125 | FOC MT L KA | D | PE | 48 | 9/125 |
| | | Dry core | Polyethylene jacket | | |
| Fiber Optic Cable Multitube Loose Tube Structure Aramid yarns armour | | | | | |

In order to improve performances, Sigma Network reserves the possibility to modify present datasheet without previous notice.