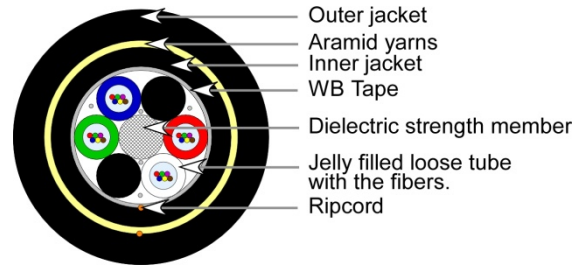


**FOC MT L KA DJ - Fiber Optic Cable / Multi Tube / Loose Tube Structure / Aramid Yarns Armour / Double Jacket**



**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.  
 Inner jacket.  
 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**

All dielectric, self-support cable for aerial applications suitable for spans up to 80m.  
 To be ducted or wall mounted installation.  
 Suitable for harsh environment. High resistance to heavy load conditions (wind and ice).  
 Aramid reinforcement provides high tensile strength.

**Specifications**

|   |                   | <b>Fibers cable no. &gt; 12 to 72</b> | <b>96</b> | <b>144</b> | <b>192,216</b> | <b>288</b> | <b>Standard</b> |
|---|-------------------|---------------------------------------|-----------|------------|----------------|------------|-----------------|
|   | PBT tubes no. >   | 1 to 6                                | 8         | 12         | 16,18          | 24         |                 |
|   | Fibers per tube > | 12                                    | 12        | 12         | 12             | 12         |                 |
|   | Units             |                                       |           |            |                |            |                 |
| Nominal outer diameter                      | mm                | 12,5                                  | 14        | 16,5       | 16,5           | 18,5       |                 |
| Nominal weight ( Polyethylene )             | Kg / Km           | 110                                   | 135       | 220        | 195            | 256        |                 |
| Nominal weight ( LSZH )                     | Kg / Km           | 140                                   | 167       | 260        | 236            | 299        |                 |
| Minimum bend radius *                       | mm                |                                       |           | 15xΦ cable |                |            | IEC 60794-1-E10 |
| Tensile strength *                          | N                 | 3000                                  | 3000      | 3000       | 4000           | 4000       | IEC 60794-1-E1  |
| Max. allowable strength during installation | N                 | 4000                                  | 4000      | 4000       | 5000           | 5000       | IEC 60794-1-E1  |
| Crush resistance *                          | N / cm            |                                       |           | 200        |                |            | 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                      | Fiber 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              |
|                         |                             | .....     | 288                                      | G655 Non-zero dispersion-shifted ITU-T G.655 |

**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<br>FOC MT L KA D PE DJ 72 OF 9/125 | Main Family<br>FOC MT L KA DJ | Core<br>D<br>Dry core | Jacket<br>PE<br>Polyethylene jacket | Fibers no.<br>72 | Fiber type<br>9/125 |
|---|-------------------------------|-----------------------|-------------------------------------|------------------|---------------------|

Fiber Optic Cable Multi Tube Loose Tube Structure Aramid Yarns Armour Double Jacket

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