

Fibre optic cables

LTMC



www.ace-fibreoptic.com



LTMC - Loose Tube Mini Cable.

Loose Tube Mini Cable, non-metallic, longitudinal water-protected, with reduced outer diameter and low bend radius, no waterpeak G.657.A1 fibres, suitable for Access or FTTx applications. Installation: blowing into miniducts

| Characteristics | Properties | Unit |
|--|-------------------------------------|-------|
| Product group | Mini/micro cables | |
| Series | Glasvezelkabel Single Mode | |
| Type | LTMC | |
| Standardization | IEC 60794-5-10 | |
| Test procedures | IEC 60794-1-2 | |
| Application | Outside | |
| Blow in | Yes | |
| Strain relief | Yes | |
| Optical Element | Loose tube, gel filled | |
| Fibre type | Single mode | |
| Optical fibre standard | Article dependant, see detail sheet | |
| Strip method | 1 Rip cord | |
| Material outer sheath | HDPE | |
| Colour outer sheath | Black | |
| Halogen free | Acc. IEC 60754-1 | |
| Halogen free (acc. EN 50267-2-2) | Yes | |
| UV resistant | Yes | |
| UV-protection | ISO 4892/2 | |
| Cable metal free | Yes | |
| Longitudinal water blocking | Yes | |
| Longitudinal watertight construction | Super Absorbing Polymer | |
| Installation temperature | Article dependant, see detail sheet | °C |
| Operation temperature range | Article dependant, see detail sheet | °C |
| Transportation and storage temperature | -40 / 70 | °C |
| Attenuation @ 1310 nm | 0.35 | dB/km |
| Attenuation @ 1550 nm | 0.22 | dB/km |
| Attenuation @ 1625 nm | 0.25 | dB/km |
| Construction and Colour codes | zie bijlagen | |



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

LTMC



www.ace-fibreoptic.com

| Partnumber | Description | Outer diameter approx. | Net weight (Kg/km) | Bending radius after installation | Bending radius during | Tensile load short term (Tm) (N) | Tensile load Long Term (TI) (N) |
|------------|--------------------------|------------------------|--------------------|-----------------------------------|-----------------------|----------------------------------|---------------------------------|
| 74832 | 12x SM G.657.A1 (1x12) | 6,0 | 26 | 90 | 120 | 1000 | 150 |
| 74816 | 24x SM G.657.A1 (2x12) | 6,0 | 27 | 90 | 120 | 1000 | 150 |
| 74813 | 36x SM G.657.A1 (3x12) | 6,0 | 27 | 90 | 120 | 1000 | 150 |
| 74815 | 48x SM G.657.A1 (4x12) | 6,0 | 28 | 90 | 120 | 1000 | 150 |
| 74814 | 72x SM G.657.A1 (6x12) | 6,0 | 29 | 90 | 120 | 1000 | 150 |
| 74812 | 96x SM G.657.A1 (8x12) | 7,0 | 43 | 105 | 140 | 1500 | 150 |
| 74846 | 96x SM G.657.A1 (8x12) | 6,4 | 40 | 100 | 130 | 1500 | 150 |
| 74858 | 144x SM G.657.A1 (12x12) | 9,2 | 69 | 140 | 185 | 1500 | 300 |
| 74834 | 144x SM G.657.A1 (6x24) | 7,9 | 50 | 120 | 160 | 1500 | 500 |
| 74836 | 192x SM G.657.A1 (8x24) | 9,3 | 70 | 140 | 185 | 2000 | 500 |

Copyright (c) TKF, 11-04-2013

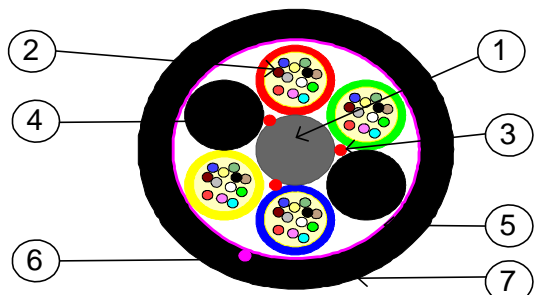
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

LTMC

FO mini-cable with stranded mini loose tubes



Description:

- 1 Centre element FRP optional with over sheath
- 2 Loose tube with optical fibres (12 or 24 fibres per tube)
- 3 Water blocking layer
- 4 Filler (only for constructions with 5 tubes or less (< 60 fibres))
- 5 Cross-binder
- 6 Ripcord
- 7 Outer sheath (PE)

Standard Colours:

| | Fibres | | Tubes | | |
|----|-----------|----------|--------------|----|-----------|
| | Gruppe 1 | Gruppe 2 | | | |
| 1 | Red | 13 | Red +t | 1 | Red |
| 2 | Green | 14 | Green +t | 2 | Green |
| 3 | Blue | 15 | Blue +t | 3 | Blue |
| 4 | Yellow | 16 | Yellow +t | 4 | Yellow |
| 5 | White | 17 | White +t | 5 | White |
| 6 | Grey | 18 | Grey +t | 6 | Grey |
| 7 | Brown | 19 | Brown +t | 7 | Brown |
| 8 | Violet | 20 | Violet +t | 8 | Violet |
| 9 | Turquoise | 21 | Turquoise +t | 9 | Orange |
| 10 | Black | 22 | Natural | 10 | Black |
| 11 | Orange | 23 | Orange +t | 11 | Pink |
| 12 | Pink | 24 | Pink +t | 12 | Turquoise |

note +t: indicates a black tracer

Fibre optic cables

LTMC



www.ace-fibreoptic.com



LTMC - Loose Tube Mini Cable.

Loose Tube Mini Cable, non-metallic, longitudinal water-protected, with extra reduced cable-diameter by application of low bend radius, no waterpeak G.657.A1 200µm fibres. This cable is perfectly suitable for Access or FTTx applications, where high fibre-count cables in smallest tube-diameter are needed. Installation: blowing into miniducts

| Characteristics | Properties | Unit |
|--|----------------------------|-------|
| Product group | Mini/micro cables | |
| Series | Glasvezelkabel Single Mode | |
| Type | LTMC | |
| Standardization | IEC 60794-5-10 | |
| Test procedures | IEC 60794-1-2 | |
| Application | Outside | |
| Blow in | Yes | |
| Strain relief | Yes | |
| Optical Element | Loose tube, gel filled | |
| Fibre type | Single mode | |
| Optical fibre standard | ITU-T G.657.A1 200um | |
| Strip method | 1 Rip cord | |
| Material outer sheath | HDPE | |
| Colour outer sheath | Black | |
| Halogen free (acc. EN 50267-2-2) | Yes | |
| UV resistant | Yes | |
| Cable metal free | Yes | |
| Longitudinal water blocking | Yes | |
| Longitudinal watertight construction | Super Absorbing Polymer | |
| Installation temperature | -15 / 50 | °C |
| Operation temperature range | -30 / 70 | °C |
| Transportation and storage temperature | -40 / 70 | °C |
| Attenuation @ 1310 nm | 0.35 | dB/km |
| Attenuation @ 1550 nm | 0.22 | dB/km |
| Attenuation @ 1625 nm | 0.25 | dB/km |
| Construction and Colour codes | zie bijlagen | |



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

LTMC



www.ace-fibreoptic.com

| Partnumber | Description | Outer diameter approx. | Net weight (Kg/km) | Bending radius after installation | Bending radius during | Tensile load short term (Tm) (N) | Tensile load Long Term (Tl) (N) |
|------------|--------------------------------|------------------------|--------------------|-----------------------------------|-----------------------|----------------------------------|---------------------------------|
| 74890 | 96x SM G.657.A1 200um (8x12) | 6,1 | 35 | 95 | 125 | 2000 | 250 |
| 74891 | 144x SM G.657.A1 200um (12x12) | 8,1 | 61 | 125 | 165 | 2500 | 500 |
| 74892 | 144x SM G.657.A1 200um (6x24) | 7,0 | 43 | 105 | 140 | 2000 | 500 |
| 74882 | 192x SM G.657.A1 200um (8x24) | 8,1 | 62 | 120 | 160 | 3000 | 1000 |
| 74915 | 216x SM G.657.A1 200um (9x24) | 8,7 | 70 | 130 | 175 | 3000 | 1000 |
| 74905 | 288x SM G.657.A1 200um (12x24) | 10,6 | 99 | 160 | 210 | 3000 | 1500 |

Copyright (c) TKF, 11-04-2013

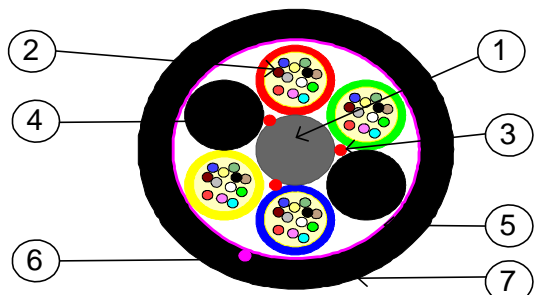
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

LTMC

FO mini-cable with stranded mini loose tubes



Description:

- 1 Centre element FRP optional with over sheath
- 2 Loose tube with optical fibres (12 or 24 fibres per tube)
- 3 Water blocking layer
- 4 Filler (only for constructions with 5 tubes or less (< 60 fibres))
- 5 Cross-binder
- 6 Ripcord
- 7 Outer sheath (PE)

Standard Colours:

| | Fibres | | Tubes | | |
|----|-----------|----------|--------------|----|-----------|
| | Gruppe 1 | Gruppe 2 | | | |
| 1 | Red | 13 | Red +t | 1 | Red |
| 2 | Green | 14 | Green +t | 2 | Green |
| 3 | Blue | 15 | Blue +t | 3 | Blue |
| 4 | Yellow | 16 | Yellow +t | 4 | Yellow |
| 5 | White | 17 | White +t | 5 | White |
| 6 | Grey | 18 | Grey +t | 6 | Grey |
| 7 | Brown | 19 | Brown +t | 7 | Brown |
| 8 | Violet | 20 | Violet +t | 8 | Violet |
| 9 | Turquoise | 21 | Turquoise +t | 9 | Orange |
| 10 | Black | 22 | Natural | 10 | Black |
| 11 | Orange | 23 | Orange +t | 11 | Pink |
| 12 | Pink | 24 | Pink +t | 12 | Turquoise |

note +t: indicates a black tracer

Fibre optic cables

CTMC



www.ace-fibreoptic.com



CTMC - Central Tube Mini Cable.

The CTMC is a customer drop cable, consisting of a central tube filled with low bend radius, no waterpeak G.657.A1 fibres, finished with aramid yarns (as strenght-elements) and a polypropylene outer jacket. This cable has a small outside diameter and is ideal for blowing in micro-tubes in the Access Network.

Installation: blowing into microducts of 5.5 mm. (inside diameter)

| Characteristics | Properties | Unit |
|--|-------------------------------------|-------|
| Product group | Mini/micro cables | |
| Series | Glasvezelkabel Single Mode | |
| Type | CTMC | |
| Test procedures | IEC 60794-1-2 | |
| Application | Outside | |
| Blow in | Yes | |
| Strain relief | Yes | |
| Optical Element | Loose tube, gel filled | |
| Fibre type | Single mode | |
| Optical fibre standard | Article dependant, see detail sheet | |
| Material outer sheath | Polypropylene | |
| Colour outer sheath | Black | |
| Halogen free (acc. EN 50267-2-2) | Yes | |
| UV resistant | Yes | |
| Cable metal free | Yes | |
| Longitudinal water blocking | Yes | |
| Installation temperature | -10 / 50 | °C |
| Operation temperature range | -30 / 70 | °C |
| Transportation and storage temperature | -30 / 70 | °C |
| Attenuation @ 1310 nm | Article dependant, see detail sheet | dB/km |
| Attenuation @ 1550 nm | Article dependant, see detail sheet | dB/km |
| Attenuation @ 1625 nm | Article dependant, see detail sheet | dB/km |
| Construction and Colour codes | zie bijlagen | |



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

CTMC



www.ace-fibreoptic.com

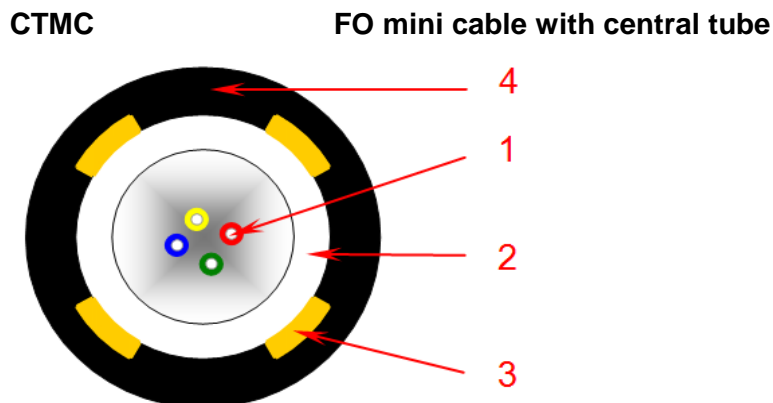
| Partnumber | Description | Outer diameter approx. | Net weight (Kg/km) | Bending radius after installation | Bending radius during | Tensile load short term (Tm) (N) | Tensile load Long Term (TI) (N) |
|------------|-----------------------|------------------------|--------------------|-----------------------------------|-----------------------|----------------------------------|---------------------------------|
| 74921 | 2x SM G.657.A1 (1x2) | 3,9 | 12 | 45 | 55 | 320 | 80 |
| 74920 | 4x SM G.657.A1 (1x4) | 3,9 | 13 | 45 | 55 | 320 | 80 |
| 74923 | 6x SM G.657.A1 (1x6) | 3,9 | 13 | 45 | 55 | 320 | 80 |
| 74927 | 8x SM G.657.A1 (1x8) | 3,9 | 13 | 45 | 55 | 320 | 80 |
| 74935 | 12x SM G.657.A1 200µm | 3,9 | 13 | 45 | 55 | 320 | 80 |
| 74934 | 24x SM G.657.A1 200um | 3,9 | 13 | 45 | 55 | 320 | 80 |

Copyright (c) TKF, 11-04-2013

No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code



Description:

- 1 Optical fibres
- 2 Central tube with 4, 6, 8, 12 fibres
- 3 Reinforcement of aramide yarns
- 4 Outer sheath (PP)

Standard Colours:

Fibrenr. Group 1

- 1 Red
- 2 Green
- 3 Blue
- 4 Yellow
- 5 White
- 6 Grey
- 7 Brown
- 8 Violet
- 9 Turquoise
- 10 Black
- 11 Orange
- 12 Pink