



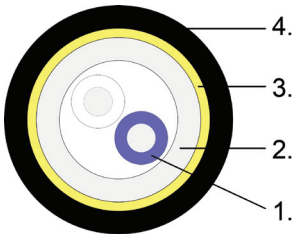
TACTICAL FIBRE OPTIC CABLES



nestor
— cables —

TACTICAL SINGLE-MODE FIBRE OPTIC CABLE FTMRMU

| | |
|-------------|---|
| Application | Non-metallic single mode optical fibre cable for tactical applications. |
|-------------|---|



- 1. Optical fibres
- 2. Inner sheath
- 3. Strength members
- 4. Outer sheath

| Maximum cabled fibre attenuation | | | |
|----------------------------------|------|------|-------|
| Wavelength | 1310 | 1550 | nm |
| Attenuation | 0,40 | 0,25 | dB/km |

| Nominal dimensions | | | | | | |
|--------------------|----------|-------------|---------------|--------------|-------|----------------|
| Fibres | | | Diameter [mm] | | | Weight [kg/km] |
| Count | Grouping | Colours | Coated fibre | Inner sheath | Cable | Cable |
| 2 | 2×1 | blue, white | 0,75 | 2,8 | 4,6 | 17 |

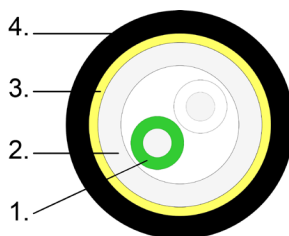
| Mechanical characteristics (IEC60794-1-2) | | |
|---|-----------------------------|---------------|
| Max. tension | - During installation (max) | 700 N |
| Crush strength | - With 100 mm plate (max) | 1500 N |
| Temperature range | - Operation | -40 to +60 °C |

| Construction | |
|-----------------|--|
| Optical fibres | Buffered and colour-coded single mode fibres according to the ITU-T G.652.D and G.657.A. |
| Inner sheath | A tube made of thermoplastic polyether-polyurethane. |
| Strength member | A layer of aramide yarns under the sheath. |
| Outer sheath | The cable sheath consists of UV resistant black thermoplastic polyether-polyurethane-elastomer compound. |

| REELS | BIG REEL | SMALL REEL |
|---------------|-----------------------------|---------------------------|
| Material | Steel | Aluminium |
| Diameter | 560 mm | 370 mm |
| Drum diameter | 160 mm | 100 mm |
| Width | 670 mm | 430 mm |
| Weight | 23,5 kg | 2,9 kg |
| | Up to 3 kilometers of cable | Up to 800 meters of cable |

| | |
|-------------|--|
| Application | Non-metallic multi mode optical fibre cable for tactical applications. |
|-------------|--|

1. Optical fibres
2. Inner sheath
3. Strength members
4. Outer sheath



| Fibre properties | | | |
|------------------|-----|------|--------|
| Wavelength | 850 | 1300 | nm |
| Attenuation, max | 3,0 | 1,0 | dB/km |
| Bandwidth, min | 400 | 600 | MHz×km |

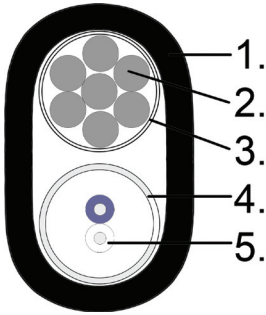
| Nominal dimensions | | | | | | |
|--------------------|----------|--------------|---------------|--------------|-------|----------------|
| Fibres | | | Diameter [mm] | | | Weight [kg/km] |
| Count | Grouping | Colours | Coated fibre | Inner sheath | Cable | Cable |
| 2 | 2×1 | green, white | 0,75 | 2,8 | 4,6 | 17 |

| Mechanical characteristics (IEC60794-1-2) | | |
|---|-----------------------------|---------------|
| Max. tension | - During installation (max) | 700 N |
| Crush strength | - With 100 mm plate (max) | 1500 N |
| Temperature range | - Operation | -40 to +60 °C |

| Construction | |
|-----------------|--|
| Optical fibres | Buffered and colour-coded multi-mode fibres. Fibre type 50/125 OM2. |
| Inner sheath | A tube made of thermoplastic polyether-polyurethane. |
| Strength member | A layer of aramid yarns under the sheath. |
| Outer sheath | The cable sheath consists of UV resistant black thermoplastic polyether-polyurethane-elastomer compound. |

| REELS | SMALL REEL |
|---------------|---------------------------|
| Material | Aluminium |
| Diameter | 370 mm |
| Drum diameter | 100 mm |
| Width | 430 mm |
| Weight | 2,9 kg |
| | Up to 800 meters of cable |

| | |
|-------------|--|
| Application | Optical fibre cable for tactical applications. Suitable for installation in water. |
|-------------|--|



1. Outer sheath
2. Strength member
3. Plastic coating
4. Inner sheath
5. Optical fibres

| Maximum cabled fibre attenuation | | | |
|----------------------------------|------|------|-------|
| Wavelength | 1310 | 1550 | nm |
| Attenuation | 0,40 | 0,25 | dB/km |

| Nominal dimensions | | | | | | |
|--------------------|----------|-------------|---------------|--------------|---------|----------------|
| Fibres | | | Diameter [mm] | | | Weight [kg/km] |
| Count | Grouping | Colours | Coated fibre | Inner sheath | Cable | Cable |
| 2 | 2×1 | blue, white | 0,75 | 2,8 | 6,5×4,5 | 40 |

| Mechanical characteristics (IEC60794-1-2) | | |
|---|-----------------------------|---------------|
| Max. tension | - During installation (max) | 2000 N |
| Crush strength | - With 100 mm plate (max) | 5000 N |
| Temperature range | - Operation | -40 to +60 °C |

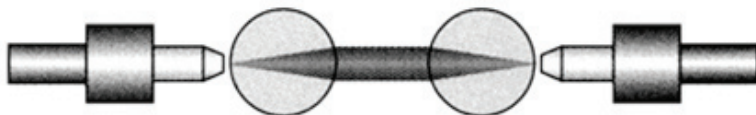
| Construction | |
|-----------------|--|
| Optical fibres | Buffered and colour-coded single mode fibres according to the ITU-T G.652.D and G.657.A. |
| Inner sheath | A tube made of thermoplastic polyether-polyurethane. |
| Strength member | Plastic coated steel strand. Nominal size of the strand is 7×0,7 mm. |
| Water blocking | Water swellable material under the sheath. |
| Outer sheath | The cable sheath consists of UV resistant black thermoplastic polyether-polyurethane-elastomer compound. |

| REELS | BIG REEL |
|---------------|-----------------------------|
| Material | Steel |
| Diameter | 560 mm |
| Drum diameter | 160 mm |
| Width | 670 mm |
| Weight | 23,5 kg |
| | Up to 3 kilometers of cable |

Expanded beam connectors.

Typical values for single mode expanded beam connectors

| | |
|-----------------------|---|
| Optical loss | 1,5 dB |
| Return loss | 40 dB |
| Operating temp. | - 40 ... + 70°C |
| Water immersion | up to 2 m |
| Vibration, sinusoidal | 10- 500Hz / 0.75 amplitude (10G acceleration) |
| Free fall | 500 falls onto concrete from 1,2 m height |
| Bump resistance: | 4000 bumps (40G acceleration) |





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