



Cable Description

- 01. Central filler
- 02. Fibre optics
- 03. Loose tube (Jelly Filled)
- 04. Waterblocking Elements
- 05. Ripcords
- 06. Inner Jacket
- 07. Strength Members
- 08. Outer Jacket

Applications

Outdoor
Direct-buried installation

Rodent protection

Rodent protected

Options

Strength Members: Aramid Yarns (PKP)
Special colour code (TIA 598)

CPR Classification (Euroclass)

Reaction to Fire: Fca
Declaration Code: DOP03100



Advantages

Excellent mechanical resistance / Totally dielectric / Resistant / Tough / High density of fibres / Excellent resistance to friction / Rodent protected.



TOTALLY DIELECTRIC



MOISTURE PROTECTED



WATERTIGHT



LOW FRICTION



ULTRAVIOLET RESISTANCE



RODENT PROTECTION



HALOGEN FREE

SPECIFICATIONS

| Fibre Count | 4 | 6 | 8 | 12 | 16 | 24 | 32 | 36 | 48 | 64 | 72 | 96 | 128 | 144 |
|-------------------------------|--|------|------|------|------|------|------|------|------|-----------------------------|------|------|------|------|
| Fibres per Tube | 4 | 2 | 4 | 4 | 4 | 6 | 8 | 6 | 12 | 8 | 12 | 12 | 8 | 12 |
| Total Tubes | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 8 | 6 | 8 | 18 | 12 |
| Active Tube | 1 | 3 | 2 | 3 | 4 | 4 | 4 | 6 | 4 | 8 | 6 | 8 | 16 | 12 |
| Inner Jacket | Polyethylene - Black | | | | | | | | | | | | | |
| Strength Members | Reinforced Fiberglass Yarns (WB) | | | | | | | | | | | | | |
| Outer Jacket | Polyethylene - Black | | | | | | | | | | | | | |
| Weight (Kg/Km) | 85 | 85 | 86 | 86 | 86 | 87 | 101 | 118 | 112 | 173 | 157 | 196 | 254 | 317 |
| Outer Ø (mm ^{±0.5}) | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 11.5 | 12.1 | 12.1 | 14.5 | 14.0 | 15.5 | 18.4 | 19.5 |
| Max. Tensile Load (N) | 1000 (Permanent) / 2000 (Installation) | | | | | | | | | 1500 (Perm.) / 2700 (Inst.) | | | | |
| Max. Crush (N/dm) | 2500 (IEC 60794-1-21 E3) | | | | | | | | | | | | | |
| Max. Impact (J) | 5 (IEC 60794-1-21 E4) | | | | | | | | | | | | | |
| Water penetration | Pass (3m / 24h / 1m / IEC 60794-1-22 F5B) | | | | | | | | | | | | | |
| Temperature Range | -40°C to +70°C (Operation) / -10°C to +50°C (Installation) - (IEC 60794-1-22 F1) | | | | | | | | | | | | | |
| Min. Bending Radius | 20 x Outer Ø (IEC 60794-1-21 E11) | | | | | | | | | | | | | |

Standards

Mechanical and Environmental tests according to IEC 60794-1-21 and IEC 60794-1-22.

Fibres colour code: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - Turquoise.

Tubes colour code: Red - Green - Natural - ... - Natural. Passive Tubes colour Black.

All technical specifications are subject to change without prior notice. Consult OPTRAL for the latest edition.

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OPTRAL

SPECIFICATIONS

| | | | | |
|------------------------------------|--|------|------|------|
| Fibre Count | 192 | 256 | 288 | 576 |
| Fibres per Tube | 12 | 16 | 24 | 24 |
| Total Tubes | 18 | 18 | 12 | 24 |
| Active Tube | 16 | 16 | 12 | 24 |
| Inner Jacket | Polyethylene - Black | | | |
| Strength Members | Reinforced Fiberglass Yarns (WB) | | | |
| Outer Jacket | Polyethylene - Black | | | |
| Weight (Kg/Km) | 165 | 213 | 320 | 418 |
| Outer Ø (mm^{±0.5}) | 14.0 | 16.2 | 19.5 | 22.4 |
| Max. Tensile Load (N) | 1500 (Operation) / 2700 (Installation) – (IEC 60794-1-21 E1) | | | |
| Max. Crush (N/dm) | 2500 (IEC 60794-1-21 E3) | | | |
| Temperature Range | -40°C to +70°C (IEC 60794-1-22 F1) | | | |
| Min. Bending Radius | 20 x Outer Ø (IEC 60794-1-21 E11) | | | |

Standards

Mechanical and Environmental tests according to IEC 60794-1-21 and IEC 60794-1-22.

Fibres colour code: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - Turquoise. With black stripe: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Natural - Turquoise.

Tubes colour code: Red - Green - Natural - ... - Natural. Passive Tubes colour Black.

Tubes colour code (576FO cable): **Inner layer (9 Tubes)** = Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White. **Outer layer (15 tubes)** = Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - Turquoise - Light Green - Red (with ring) - Green (with ring).

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