



Cable Description

- 01. Central Element (GRP)
- 02. Fibre Optic
- 03. Loose Tube (Jelly Filled)
- 04. Strength Members
- 05. Ripcord
- 06. Inner Jacket
- 07. Dielectric Armour
- 08. Ripcord
- 09. Outer Jacket

Applications

Outdoor
Direct burial

Rodent protection

Rodent resistant

Options

Strength Members = Aramid (KPDP Type)
Special colour code (TIA 598)

CPR Classification (Euroclass)

Reaction to Fire: Fca
Declaration Code: DOP03150

Advantages

Compact / Tough / Resistant / Totally dielectric / Excellent Resistance to Friction / Suitable for "blown air" system / Moderate rodent protection



TOTALLY
DIELECTRIC



MOISTURE
PROTECTED



WATERTIGHT



LOW
FRICTION



ULTRAVIOLET
RESISTANCE



RODENT
PROTECTION



HALOGEN
FREE

SPECIFICATIONS

Fibres	12	16	24	32	36	48	64	72	96	128	144
Fibres per Tube	4	4	6	8	6	12	8	12	12	8	12
Total Tubes	4	4	4	4	6	4	8	6	8	18	12
Active Tubes	3	4	4	4	6	4	8	6	8	16	12
Strength Members	Reinforced Fiberglass Yarns WB (Water Blocking)										
Inner jacket	Polyethylene - Black										
Armour	Fiberglass Braid										
Outer jacket	Polyethylene - Black										
Weight (Kg/Km)	112	112	112	127	135	135	198	181	225	237	253
Outer Ø (mm)	11.6 ±0.5	11.6 ±0.5	11.6 ±0.5	12.8 ±0.5	13.1 ±0.5	13.1 ±0.5	15.3 ±0.5	15.2 ±0.5	16.9 ±0.5	16.9 ±0.5	16.7 ±0.5
Max. Tensile Load (N)	1200 (Operation) / 2150 (Installation)						1700 (Operation) / 3050 (Installation)				
Max. Crush (N/dm)	3000 (IEC 60794-1-21 E3)										
Temperature Range	-40°C to +70°C (Operation) / -10°C to +50°C (Installation) - (IEC 60794-1-22 F1)										
Min. Bending Radius	15 x Outer Ø (Operation) / 20 x Outer Ø (Installation) - (IEC 60794-1-21 E11)										
Water tightness	According (3m, 1m, 24h, Optical Core, IEC 60794-1-22 F5B)										

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.
Fibres colour code: Red - Green - Natural - ... - Natural. Passive tubes: black.

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OPTRAL

	SPECIFICATIONS	
Fibres	192	256
Fibres per Tube	12	16
Total Tubes	18	18
Active Tubes	16	16
Strength Members	Reinforced Fiberglass Yarns WB (Water Blocking)	
Inner jacket	Polyethylene - Black	
Armour	Fiberglass Braid	
Outer jacket	Polyethylene - Black	
Weight (Kg/Km)	241	243
Outer Ø (mm)	16.9 ±0.5	16.8 ±0.5
Max. Tensile Load (N)	1700 (Operation) / 3050 (Installation)	
Max. Crush (N/dm)	3000 (IEC 60794-1-21 E3)	
Temperature Range	-40°C to +70°C (Operation) / -10°C to +50°C (Installation) - (IEC 60794-1-22 F1)	
Min. Bending Radius	15 x Outer Ø (Operation) / 20 x Outer Ø (Installation) - (IEC 60794-1-21 E11)	
Water tightness	According (3m, 1m, 24h, Optical Core, IEC 60794-1-22 F5B)	

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 ring: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Natural – Turquoise.
 Fibres colour code: Red – Green – Natural - ... - Natural. Passive tubes: black.

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

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