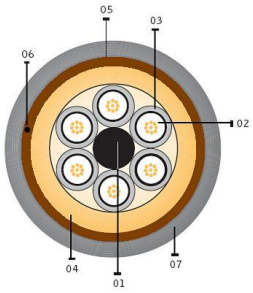
OPTRAL

PKP

Multitube Loose Tube



Cable Description
01. Central filler
02. Fibre optics
03. Loose tube (Jelly Filled)
04. Inner jacket
05. Aramid yarns
06. Ripcord
07. Outer jacket

Applications
Outdoor

Options
Strength Members: Fibreglass (PDP)
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.



	SPECIFICATIONS										
Fibre Count	12	16	24	32	36	48	64	72	96	128	144
Fibres per Tube	12	8	12	8	12	12	8	12	12	8	12
Total Tubes	6	6	6	6	6	6	8	6	8	18	12
Active Tube	1	2	2	4	3	4	8	6	8	16	12
Tube ∅ (mm)	$1.70^{\pm 0.1}$										
Inner Jacket	Polyethylene - Black										
Strength Members	Aramid Yarns										
Outer Jacket	Polyethylene - Black										
Weight (Kg/Km)	87	87	87	88	88	89	111	91	113	155	162
Outer ∅ ($mm^{\pm 0.5}$)	10.5	10.5	10.5	10.5	10.5	10.5	11.5	10.5	11.5	13.9	13.5
Max. Tensile Load (N)	1000 (Operating) / 1800 (Installation)						1500 (Operating) / 2700 (Installation)				
Max. Crush (N/dm)	2000 (IEC 60794-1-21 E3)										
Temperature Range	-40ºC to +70ºC (IEC 60794-1-22 F1)										
Min. Bending Radius	15 x Outer ∅ (Operating) / 20 x Outer ∅ (Installation) - (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.

OPTRAL

	SPECIFICATIONS					
Fibre Count	192	216	256	288	432	576
Fibres per Tube	12	12	16	24	24	24
Total Tubes	18	18	18	12	18	24
Active Tube	16	18	16	12	18	24
Tube ∅ (mm)	1.7 $^{\pm 0.1}$		2.1 $^{\pm 0.1}$	2.8 $^{\pm 0.1}$		
Inner Jacket	Polyethylene - Black					
Strength Members	Aramid Yarns					
Outer Jacket	Polyethylene - Black					
Weight (Kg/Km)	153	155	205	321	305	400
Outer ∅ (mm$^{\pm 0.5}$)	13.7	13.7	15.9	19.3	19.7	22.1
Max. Tensile Load (N)	1500 (Operating) / 2700 (Installation)					
Max. Crush (N/dm)	2000 (IEC 60794-1-21 E3)					
Temperature Range	-40ºC to +70ºC (Operation) / -10ºC to +50ºC (Installation) - (IEC 60794-1-22 F1)					
Min. Bending Radius	15 x Outer ∅ (Operating) / 20 x Outer ∅ (Installation) - (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 ring: Red - Green - Blue - Yellow - Grey - Violet - Brown - Orange - White - Pink - Black - 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).

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