

OPTICAL FIBRE CABLES

APPLICATION

Multitube cable, loose type, non-metallic, dry core, low dimensions, lightweight, watertight. Designed for indoor/outdoor applications in ducts. Cable installation by pulling or blowing. Easy handling and installation.

CONSTRUCTION CHARACTERISTICS

Optical fibres (at choice)

Single-mode (Dispersion unshifted) – IEC 60793-2 and ITU-T Rec. G.652.

Single-mode NZD – ITU-T Rec. G.655.

Multi-mode type 50/125 µm – IEC 60793-2 (A1.a) and ITU-T Rec. G.651.

Multi-mode type 62,5/125 µm – IEC 60793-2 (A1.b).

Central strength member

Glass fibre reinforced plastic rod (FRP).

Loose Tubes

PBT – tube with optical fibres and filled with gel.

Core watertightness

Dry – waterblocking swelling tape and yarns.

Mechanical reinforcement

Glass fibre yarns.

Ripcord

Oversheath

Polyethylene.

COLOUR AND CABLE MARKING

Black.

Oversheath marked at regular intervals with the following information:

<CABELTE> <type of cable> <composition> <year of manufacture> <metric marking>

FIBRES IDENTIFICATION

Fibres colour code inside tube

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

Colour of filling elements

Black

Tubes colour code

Up to 12 tubes

1 · Red	2 up to 11 · Natural	12 · Green
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16 tubes

1 st jacket	White	Red	Blue	Green
2 nd jacket	3 White	3 Red	3 Blue	3 Green



Tubes colour code

18 tubes

1 st jacket	2 White	2 Red	2 Blue	
2 nd jacket	3 White	3 Red	3 Blue	3 Green

MECHANICAL AND DIMENSIONAL CHARACTERISTICS

Fibres count per cable	N.° of elements	Fibres per tube	Cable diameter (mm)	Cable weight (kg/km)	Max. Pulling force		Mechanical resistance		Minimum bending radius	
					Installed (N)	In service (N)	Crush (N/cm)	Impact (J)	Installed (mm)	In service (mm)
12	5	6	10,0	70	1 150	650	300	1	180	140
24	5	6	10,0	70	1 150	650	300	1	180	140
24	5	8	10,0	70	1 150	650	300	1	180	140
24	5	12	10,5	75	1 350	750	300	1	190	145
32	5	8	10,0	70	1 150	650	300	1	180	140
36	6	6	10,0	75	1 250	650	300	1	180	140
36	5	12	10,5	75	1 350	750	300	1	190	145
48	6	8	10,0	75	1 250	650	300	1	180	140
48	5	12	10,5	75	1 350	750	300	1	190	145
60	5	12	10,5	75	1 350	750	300	1	190	145
64	8	8	12,0	105	1 550	800	300	1	215	170
72	9	8	12,5	115	1 900	950	300	1	225	175
72	6	12	11,0	85	1 750	850	300	1	198	154
96	12	8	14,5	160	2 450	1000	300	1	260	205
96	8	12	12,5	115	1 750	950	300	1	225	175
120	10	12	14,0	145	2 250	1 150	300	1	250	195
128	16	8	15,0	170	2 550	1 050	300	1	270	210
144	18	8	15,0	170	2 550	1 050	300	1	270	210
144	12	12	15,5	180	2 850	1 400	300	1	280	215

Temperature: Storage and transport: - 10°C up to 60°C.

Temperature: Operation: - 20°C up to 60°C.