

1. Dielectric central strength membre
2. Fiber optic
3. Loose tube with Gel
4. Dry water swelling material
5. Rip cords
6. Corrugated steel tape
7. Outer jacket PEHD

Color code of the fibers is as per TIA/EIA 598A and IEC 304.

Tube/Fiber Number	Colour	Ring
1	Blue	-
2	Orange	-
3	Green	-
4	Brown	-
5	Grey	-
6	White	-
7	Red	-
8	Black	-
9	Yellow	-
10	Violet	-
11	Pink	-
12	Turquoise	-
13	Blue	Black
14	Orange	Black
15	Green	Black
16	Brown	Black
17	Grey	Black
18	White	Black
19	Red	Black
20	Natural	Black
21	Yellow	Black
22	Violet	Black
23	Pink	Black
24	Turquoise	Black

Applications

The cable is designed for outdoor applications, in ducts, for direct burial or latched installations

Single mode or multi-mode fibers, meeting or exceeding the pertinent IEC*, ITU and EIA/TIA specifications

Up to 144 optical fibers are enclosed in PBT tubes. The tubes and fibers are colour coded for easy identification. The tubes are filled with a thixotropic gel to prevent the ingress of water.

The tubes are SZ stranded around a dielectric central member. PE fillers are added when needed to form the rounded cable core.

The interstices in the cable core are filled with a dry water swelling material to prevent water penetration.

Water swelling glass yarn is laid over the tubes to serve as peripheral strength members.

A corrugated steel tape armoring is longitudinally applied over the glass yarn.

The outer jacket, made of UV resistant PEHD, is extruded over the armoring tape.

Two ripcords are laid at 180° under the steel tape to facilitate the jacket removal

(*For more specifications please refer to the document titled « optical performances ».


REF : EXTALMT_x

MULTI LOOSE TUBE FIBER OPTIC – ARMOURED - PEHD JACKET

Mechanical and environmental properties

								IEC-60794-1-2 Test Method	TIA/EIA-455 FOTP No.
No. of Fibers	24	36	48	60	72	96	144		
No. of Tubes	4	6	6	6	6	8	12		
Nom. Tube Diameter [mm]	2.1	2.1	2.1	2.1	2.1	2.1	2.1		
Nom. Diameter [mm]	10.0	13.0	13.0	15.6	15.6	15.6	18.0		
Nom. Jacket Thickness [mm]	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
Maximum Pulling Load (N)	2700	2700	2700	2700	2700	2700	2700	E1	33
Maximum Operating Load (N)	1600	1600	1600	1600	1600	1600	1600		
Minimum Bending Radius	20 x D							E11	104
Max. Compressive Loading (N)	4000	4000	4000	4000	4000	4000	4000	E3	41
Fire Resistance	-								
Storage Temperature Range	- 50°C to +70° C							F1	3
Operating Temperature Range	- 40° C to +70° C							F1	3
Nom. Weight [kg/km]	123	126	130	135	150	165	220		

References

Reference	Designation	JACKET COLOUR	 (m)
EXTALMTxx	xx FO 62.5/125 OM1 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTxx50	xx FO 50/125 OM2 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTxx50OM3	xx FO 50/125 OM3 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTxx50OM4	xx FO 50/125 OM4 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTx9125	x FO 9/125 OS2 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTx9125G657	x FO 9/125 G657 LOOSE -ARMOURED – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000

X = Number of fiber