

- 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 288 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 armouring is longitudinally applied over the glass yarn.

The outer jacket, made of UV resistant PEHD, is extruded over the armouring 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 : EXTALMTx

MULTI LOOSE TUBE FIBER OPTIC – ARMoured - PEHD JACKET

Mechanical and environmental properties

									IEC-60794-1-2 Test Method
No. of Fibers	24	36	48	60	72	96	144	288	
No. of Tubes	4	6	6	6	6	8	12	24	
Nom. Tube Diameter [mm]	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2,5	
Nom. Diameter [mm]	10.0	13.0	13.0	15.6	15.6	15.6	18.0	18,5	
Nom. Jacket Thickness [mm]	1.5								
Maximum Pulling Load (N)	3600								E1
Maximum Operating Load (N)	2000								
Minimum Bending Radius	20 x D								E11
Max. Compressive Loading (N)	2500								E3
Fire Resistance	-								
Storage Temperature Range	- 50°C to +70° C								F1
Operating Temperature Range	- 40° C to +70° C								F1
Nom. Weight [kg/km]	123	126	130	135	150	165	220	320	

References

Reference	Designation	JACKET COLOUR	 (m)
EXTALMTxxOM3	xx FO 50/125 OM3 LOOSE -ARMoured – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTxxOM4	xx FO 50/125 OM4 LOOSE -ARMoured – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTxOS2	x FO 9/125 OS2 LOOSE -ARMoured – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000
EXTALMTx7A2	x FO 9/125 G657 LOOSE -ARMoured – MULTITUBE OUTDOOR	BLACK- RAL 9005	T1000

X = Number of fiber