

## REF : EXTALMTxSHC1

MULTI LOOSE TUBE FIBER OPTIC WITH LSZH ARMoured  
OUTTER JACKET – C1 CABLE ACCORDING TO NFC 32-070



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	Purple
14	Orange	Purple
15	Green	Purple
16	Brown	Purple
17	Grey	Purple
18	White	Purple
19	Red	Purple
20	Natural	Purple
21	Yellow	Purple
22	Violet	Purple
23	Pink	Purple
24	Turquoise	Purple

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 LSZH C1

## 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.

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 LSZH outer jacket is extruded over the armouring tape.

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


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### Mechanical and environmental properties

								IEC-60794-1-2 Test Method	TIA/EIA-455 FOTP No.
<b>No. of Fibers</b>	<b>24</b>	<b>36</b>	<b>48</b>	<b>60</b>	<b>72</b>	<b>96</b>	<b>144</b>		
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	IEC 60 332-1								
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)
EXTALMTxxOM3SHC1	xx FO 50/125 OM3 C1 LSZH STEEL ARMOUR IN OUT	BLACK- RAL 9005	T1000 T2000
EXTALMTxxOM4SHC1	xx FO 50/125 OM4 C1 LSZH STEEL ARMOUR IN OUT		
EXTALMTxxOM5SHC1	xx FO 50/125 OM5 C1 LSZH STEEL ARMOUR IN OUT		
EXTALMTxOS2SHC1	xx FO 9/125 OS2 C1 LSZH STEEL ARMOUR IN OUT		
EXTALMTx57A2C1	xx FO 9/125 G7657A2 C1 LSZH STEEL ARMOUR IN OUT		

X = Number of fiber