

Multi Loose Tube, Double Galvanized STA Outdoor FOC

APPLICATION

- Suitable for pushing, blowing method.
- In heavy duty environments.
- As a backbone cable in telecommunication lines.
- Rodent protection.
- Extra strength due to double layer of galvanized steel.

USAGE

Minimum Bending Radius	
Operation	20 x cable Ø
Fixed	15 x cable Ø
Temperature Range	
Storage	-40°C to +70°C
Transport	-40°C to +70°C
Installation	-30°C to +60°C
Operating	-40°C to +70°C

COMPLIANCE

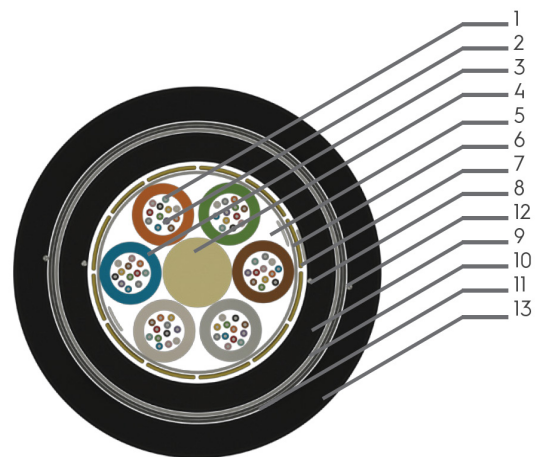
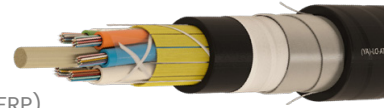
EN 50173-1:2018
EN 50575: 2014 + A1: 2016
EN 50399:2011+A1:2016
ISO/IEC 11801-1:2017
ANSI/TIA 568-3.D
ANSI/TIA/EIA 598-D
RoHS-II/-III, WFD: 2023

NOTE

For fiber core mode based specifications, please refer the FIBER CORE SPECIFICATIONS Attached.

CABLE CONSTRUCTION

1. Optical fiber core
2. Waterproof thixotropic jelly
3. PBT Tube
4. Non-metallic central strength member (FRP)
5. Jelly filling
6. Core Wrapping (Polyester Tape)
7. Non-metallic strength member (Aramid yarn)
8. Ripcord
9. UV resistant polyethylene (LLDPE) black inner jacket
10. Water-swellable tape
11. Two helically laid galvanized steel tape
12. Ripcord
13. UV resistant polyethylene (HDPE) black outer jacket



Cross Section



MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension ²	IEC 60794-1-2-E1	3.0 x W(N), min. 5000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	1.0 x W(N), min. 1500 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	4000 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	Δα ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m, 100N, +/- 180°, 5 cycles	Δα ≤ 0.05 dB, No damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 35 cycles	No damage
Bending Radius	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	Δα ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	Δα ≤ 0.05 dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.

| ORDERING

Part Number	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	"FRP Diameter (mm)"	Cable Diameter (mm)	Cable Weight (kg/km)
14F9-62D02-2-A-AG-MLT-DB-1-P15	SM G.652.D	2	1	5	2	2	17	369
14F9-62D04-2-A-AG-MLT-DB-1-P15	SM G.652.D	4	1	5	2	2	17	368
14F9-62D04-2-A-AG-MLT-DB-1-P24	SM G.652.D	4	2	4	2	2	17	369
14F9-62D06-2-A-AG-MLT-DB-1-P15	SM G.652.D	6	1	5	2	2	17	368
14F9-62D06-2-A-AG-MLT-DB-1-P33	SM G.652.D	6	3	3	2	2	17	370
14F9-62D08-2-A-AG-MLT-DB-1-P15	SM G.652.D	8	1	5	2	2	17	368
14F9-62D08-2-A-AG-MLT-DB-1-P24	SM G.652.D	8	2	4	2	2	17	369
14F9-62D08-2-A-AG-MLT-DB-1-P42	SM G.652.D	8	4	2	2	2	17	371
14F9-62D12-2-A-AG-MLT-DB-1-P15	SM G.652.D	12	1	5	2	2	18	386
14F9-62D12-2-A-AG-MLT-DB-1-P33	SM G.652.D	12	3	3	2	2	17	370
14F9-62D12-2-A-AG-MLT-DB-1-P60	SM G.652.D	12	6	0	2	2	17	372
14F9-62D16-2-A-AG-MLT-DB-1-P24	SM G.652.D	16	2	4	2	2	17	369
14F9-62D16-2-A-AG-MLT-DB-1-P42	SM G.652.D	16	4	2	2	2	17	370
14F9-62D20-2-A-AG-MLT-DB-1-P51	SM G.652.D	20	5	1	2	2	17	371
14F9-62D24-2-A-AG-MLT-DB-1-P24	SM G.652.D	24	2	4	2	2	18	384
14F9-62D24-2-A-AG-MLT-DB-1-P33	SM G.652.D	24	3	3	2	2	17	369
14F9-62D24-2-A-AG-MLT-DB-1-P42	SM G.652.D	24	4	2	2	2	17	370
14F9-62D24-2-A-AG-MLT-DB-1-P60	SM G.652.D	24	6	0	2	2	17	371
14F9-62D32-2-A-AG-MLT-DB-1-P42	SM G.652.D	32	4	2	2	2	17	369
14F9-62D36-2-A-AG-MLT-DB-1-P33	SM G.652.D	36	3	3	2	2	18	384
14F9-62D36-2-A-AG-MLT-DB-1-P60	SM G.652.D	36	6	0	2	2	17	371
14F9-62D48-2-A-AG-MLT-DB-1-P42	SM G.652.D	48	4	2	2	2	18	609
14F9-62D48-2-A-AG-MLT-DB-1-P60	SM G.652.D	48	6	0	2	2	17	370
14F9-62D60-2-A-AG-MLT-DB-1-P51	SM G.652.D	60	5	1	2	3	18	399
14F9-62D64-2-A-AG-MLT-DB-1-P80	SM G.652.D	64	8	0	2	3	19	440
14F9-62D72-2-A-AG-MLT-DB-1-P60	SM G.652.D	72	6	0	2	3	18	399
14F9-62D96-2-A-AG-MLT-DB-1-P80	SM G.652.D	96	8	0	2	3	19	457
14F9-62D144-2-A-AG-MLT-DB-1-P120	SM G.652.D	144	12	0	2	3	22	588

Jackets like OFNP, OFNR, OFNG, OFN, OFCP, OFCR etc available on request.

| PARTNER NUMBER GENERATOR (EXAMPLE BELOW)

Part Number (Based on 4 Fiber Count)	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	"FRP Diameter (mm)"	Cable Diameter (mm)	Cable Weight (kg/km)
14F9-671-04-2-A-AG-MLT-DB-1-P15	SM G.657A1	4	1	5	2	2	17	368
14F9-672-04-2-A-AG-MLT-DB-2-P15	SM G.657A2	4	1	5	2	2	17	368
14F9-6M-04-2-A-AG-MLT-DB-2-P15	OM1	4	1	5	2	2	17	368
14F9-50-04-2-A-AG-MLT-DB-2-P15	OM2	4	1	5	2	2	17	368
14F9-53-04-2-A-AG-MLT-DB-2-P15	OM3	4	1	5	2	2	17	368
14F9-54-04-2-A-AG-MLT-DB-2-P15	OM4	4	1	5	2	2	17	368

If other core types are required please follow the Ordering Matrix based on 4 Fiber Count