

CST Armoured Loose Tube

Corrugated Steel Tape Loose Tube Cables 6-144F

Features

- Double jacketed, armoured loosetube
- Insect/termite & rodent proof steel tape and UV stabilised polyethelene jackets suits permanent installation in a wide range of environments
- Metallic armouring offers superior protection to a range of hazards
- Water swellable yarns provide protection against water ingress (dry core construction)
- Fibreglass reinforced polymer central strength member and glass yarn peripheral strength member provide excellent strength
- Flexible buffer tubes provide easy handling within termination enclosures
- Single layer SZ stranding limits stress on fibre tubes
- Fibre friendly thixotropic gel in tubes ensures fibre protection

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Application

- Underground ducts
- Direct buried fibre links
- Inter-building links
- Campus fibre networks
- Infrastructure and industrial fibre links
- Rodent/termite prone areas

Design

FOS corrugated steel tape armoured loose tube fibre cable is suited to external underground installations in ducts by pulling, jetting or floating techniques or by direct burial in
open-cut trenches. CST armoured loose tube is particularly suited to areas where rodents and termites are an issue and metallic construction is permitted.

Loose tube cable offers a cost-effective and rugged solution for medium and long distance external fibre runs.

FOS corrugated steel tape armoured loose tube cable is available in OM1, OM3, OM4 and Singlemode.

Product Information

1. Outer Jacket: Nylon
2. Inner Jacket: Polyethelene
3. Warpping: Core Wrapping/Water Swelling Yarns
4. Loose Tubes: PBTP
5. Strength Member: FRP (PE upcoating where required)
6. Tube Filler: Thixotropic Jelly
7. Optical Fibre: Silica Glass Fibre
8. Ripcords: Polyester

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Technical Information

Product Color	Black
Color Code	TIA598
Temperature, Operation [°C]	-30°C to +70°C
Temperature, Storage [°C]	-30°C to +70°C
Temperature, Installation [°C]	-20°C to +70°C
Fiber Type	G652D,OM1,OM3,OM4
Attenuation @Wavelength [nm]	1310/1550/1625 850/1300
Maximum Attenuation [dB/km]	0.35/0.21/0.24 3.0/1.0* excl OM1
Conformance	Temperature Range: (IEC 60794-1-2-F1) Cable Bend Radius: (IEC 60794-1-2-E11 A) Repeated Bending: (IEC 60794-1-2-E6) Tensile Force: (IEC 60794-1-2-E1) Impact Resistance: (IEC 60794-1-2-E4) Crush resistance: (IEC 60794-1-2-E3) Torsion resistance: (IEC 60794-1-2-E7) Water Penetration: (IEC 60794-1-2-F5 B) Kink Resistance: (IEC 60794-1-2-E10)

Technical Details

TIA-598 Fibers and Tubes	1	2	3	4	5	6	7	8	9	10	11	12
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	13	14	15	16	17	18	19	20	21	22	23	24
	Blue |	Orange |	Green |	Brown |	Slate |	White |	Red |	Clear |	Yellow |	Violet |	Rose |	Aqua |

TIA 598 Color Code Chart

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Items 16

Item Name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Impact [J]	Torsion [°]	Diameter Ø [mm]	Weight [kg/km]
CST Armoured Loose Tube 6F SM G652D F-LT6S-CST-PE-BK	**Black**	**6**	**1x6 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 12F SM G652D F-LT12S-CST-PE-BK	**Black**	**12**	**1x12 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 24F SM G652D F-LT24S-CST-PE-BK	**Black**	**24**	**2x12 (4 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 48F SM G652D F-LT48S-CST-PE-BK	**Black**	**48**	**4x12 (2 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 72F SM G652D F-LT72S-CST-PE-BK	**Black**	**96**	**6x12 (0 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**205**
CST Armoured Loose Tube 96F SM G652D F-LT96S-CST-PE-BK	**Black**	**96**	**8x12 (4 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**15.0**	**205**
CST Armoured Loose Tube 144F SM G652D F-LT144S-CST-PE-BK	**Black**	**144**	**12x12 (0 fillers)**	**350**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**17.5**	**270**

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CST Armoured Loose Tube 6F OM1 Multimode F-LT6M1-CST-PE-BK	**Black**	**6**	**1x6 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 12F OM1 Multimode F-LT12M1-CST-PE-BK	**Black**	**12**	**1x12 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 24F OM1 Multimode F-LT24M1-CST-PE-BK	**Black**	**24**	**2x12 (4 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 6F OM3 Multimode F-LT6M3-CST-PE-BK	**Black**	**6**	**1x6 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 12F OM3 Multimode F-LT12M3-CST-PE-BK	**Black**	**12**	**1x12 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 24F OM3 Multimode F-LT24M3-CST-PE-BK	**Black**	**24**	**2x12 (4 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 6F OM4 Multimode F-LT6M4-CST-PE-BK	**Black**	**6**	**1x6 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**

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CST Armoured Loose Tube 12F OM4 Multimode F-LT12M4-CST-PE-BK	**Black**	**12**	**1x12 (5 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**
CST Armoured Loose Tube 24F OM4 Multimode F-LT24M4-CST-PE-BK	**Black**	**24**	**2x12 (4 fillers)**	**270**	**2500**	**1500**	**4000**	**500mm height, 5kg weight, 3 impacts**	**10 Cycles (± 360°) 10 kg weight, 2m length**	**13.5**	**170**

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