

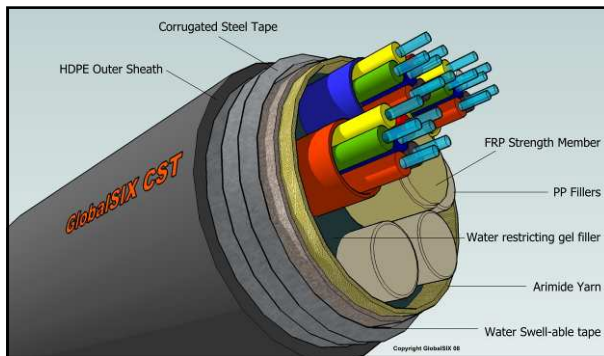
Cable Construction - (CST) Corrugated Steel Tape Armour

Description

Starting from the centre, high modulus plastic tubes are stranded around a central FRP (Fiber Reinforced Plastic) non-metallic, strength member core. Each tube is filled with water resistant filler gell, protecting the fibres within. These tubes are then bundled together with filler tubes to form a circular cable core and protected with further cable filler. The collected cables are then wrapped in a layer of Aramid yarns for added strength and a further protective layer of water swell-able tape. The cable is then completed with a sheath of coated Corrugated Steel Tape and Polyethylene sheath.

Application

GlobalSIX CST fiber cables are designed for use in direct burial, outdoor duct and Aerial applications.



Characteristics

- Accurate fibre excess lengths ensure performance under high tensile and temperature variations.
- Compact Structure further enhances crush resistance, flexibility and reduces shrinkage.
- Hydrolysis resistant loose tubes and water blocking filling ensure maximum fiber protection.
- FRP central strength member and Aramid yarns offer ultimate tensile strength characteristics.
- Polyethylene coated steel tape PSP—CST for additional crush resistance.
- Water swell-able tape for optimum protection of water ingress

Mechanical Requirements - Test Methods

Test	Standards Compliance
Tensile Strength	IEC 794-1-E1 and ITU-T Rec.L.14
Crush Resistance	IEC 794-1-E3
Impact Resistance	IEC 794-1-E4
Repeated Bending	IEC 794-1-E6
Torsion	IEC 794-1-E7
Flexing	IEC 794-1-E8
Kink	IEC 794-1-E10
Cable Bend	IEC 794-1-E11
Vibration	IEC 794-1
Water penetration	IEC 794-1-F5B
Dielectric Strength	ITU-T Rec. K25
Spark Test Voltage	No less than 8kV AC
Abrasion	IEC 794-1-E2
Temp Cycling	IEC 794-1-F1

Installation Criteria

Temp. Requirements	Operation: -40 ~ +70 C
	Installation: -30 ~ +70 C
	Storage: -40 ~ +70 C
Bending Radius	Unloaded: 10 X OD
	Loaded: 20 X OD

Cable Type	Fiber Count	FRP Diam	Tubes + Fillers	Max Fibers per Tube	Cable Diameter	Cable Weight	Tensile Strength N	Crush Resist. N/100mm
G6FMLTC ST-XX	4-24	2.25mm	6	6	11.6mm	150kg/km	2700N	2000N
G6FMLTC ST-XX	48	2.6mm	6	6	12mm	160kg/km	2700N	2000N
G6FMLTC ST-XX	96	4.5mm	8	12	13.6mm	200kg/km	2700N	2000N
G6FMLTC	98-192	6.1mm	20	12	19.6mm	+260kg/km	2700N	2000N

XX denotes fiber count

International Quality Conformance

ISO 9001:2000

ISO 14001:1996

