CST ARMOURED CABLE (Heavy duty duct cable with corrugated steel tape armour)

Arc

Cable Description

OPTICAL FIBRE CABLE

- 1. Polyethylene outer sheath.
- 2. Plastic coated corrugated steel tape armour.
- 3. Polyethylene bedding sheath.
- 4. Core binder.
- Aramid strength member.
 Interstitial water blocking gel.
- 7. Gel filled loose tubes.
- 8. Colour coded fibres.
- 9. GRP centre strength member.

Technical detail overleaf

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DATA SHEET: CST/01 ISSUE DATE: 01/10/00

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OUTDOOR **OPTICAL FIBRE**

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Product features

- The ATC "corrugated steel tape armoured" cable is suitable for direct burial in "normal" soils. Special cable designs can be provided to counter the contractional forces encountered in black turf. CST armouring will also provide the necessary protection for alternative applications where the cable is subjected to abnormal crush or impact forces during installation or service, such as duct or lashed aerial.
- The plastic clad steel tape is overlapped, essentially forming a metal lined plastic pipe over the cable core, which provides an excellent moisture and chemical barrier.
- Damage due to lightning strikes in the vicinity of buried cable are eliminated, as the coated tape provides an open circuit at the overlap, eliminating a circumferential path for induced current.
- Corrugated steel tapes are widely recognised for their ability to resist rodent attack.
- Corrugated steel tapes are widely recognised for their ability to resist rought attack. The polymer coating on the tape prevents corrosion spread, even after sheath damage. The tape is applied longitudinally, eliminating the torsional stress normally associated with steel wire armoured cable, and preventing cable spiralling, twisting, and kinking during installation. The steel tape armour is bonded to the sheath, which has the effect of distributing any mechanical stresses
- uniformly throughout the cable, resulting in improvements to bend, crush, puncture, and kink resistance when compared with conventional armouring techniques, particularly for cables smaller than 25 mm
- In addition to Polyethylene, the cables are available in Low Smoke Zero Halogen (LSZH), fire retardant, non toxic sheaths to comply with the strictest building regulations.

Typical properties

• Fibre count (up to)	24	36	48	72	96
Construction (Number of elements)	4	6	8	6	8
Diameter (mm)	16.6	16.9	17.4	17.5	20.5
• Weight (kg/km)	225	240	280	290	380
 Maximum short term load (N)* 	2 200	3 000	3 200	3 400	4 500
 Maximum long term load (N)** 	600	600	600	600	600
Minimum bend radius (mm)	200	200	210	210	245
Crush resistance					
(N) (via 100 mm x 100 mm plate)	5 000	5 000	5 000	5 000	5 000
• Impact test (2 Nm blows / 25 mm anvil)	50	50	50	50	50
• Temperature range (°C)	-20/+70	-20/+70	-20/+70	-20/+70	-20/+70

Note:

- Short term load is the load at which the fibre strain is less than one third of the fibre proof strain level.
- **Long term load is the load at which no fibre strain occurs. Higher fibre count cables are available on request.





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