

## Introduction

Armored Corrugated Steel CST Multi Loose Tube Cable is commonly known as Outdoor Armored Multi Loose tube Fiber Optic Cable. It is mostly Installed in riser ducts and cable trunks. It can also be made into a 12 to 288 cores structure with a cross-section Loose tube made of colored optical fiber without filling waterproof compound. Loose tube is stranded around the strength member which in the central of cable into cable core, a layer of water-blocking tap is longitudinal wrapped around the cable core, after Corrugated steel is longitudinal wrapped, an outer jacket is extruded. A layer of outer Jacket Material is polyethylene (PE), low smoke halogen-free flame-retardant polyolefin (LSZH), flame-retardant polyethylene (ZRPE) or other materials. Due to its small diameter and flexibility, the armored loose tube cable is ideal for installation in cable trays. It can be installed in modern FTTH and FTTB systems, server rooms or connections between buildings. Other sheath materials are available on request.



## Features

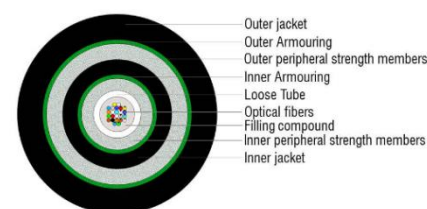
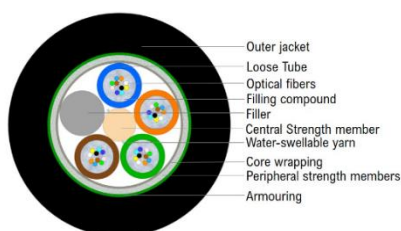
The Armored Multi Loose Tube Cable bundles for in building cabling systems are dedicated for indoor and outdoor network infrastructure. The small diameter is suitable to be used in projects requiring large number of slots and the fiber number between 12~288 core optical fiber cable which can be routed into ducts, and optical fiber cable with the following features:

- Flame retardant characteristics meet the requirements of relevant standards
- Excellent temperature performance
- Crush resistance and moisture barrier
- High strength member
- Small bending radius
- Meet various requirements of market and clients
- Excellent environmental properties
- Perfect cable structure with high fiber density
- Single or Double jacket Armored Loose Tube Cable bundles
- Singlemode or Multimode
- Fiber Type: G652D; 657A1; 50/125; 62.5/125; OM3; OM4 As Options

## Cable Structure

The Armored Single Loose Tube Cable bundles available in different cable structure as following:

- Armored Corrugated Steel CST single jacket Multi Loose Tube Cable
- Armored Corrugated Steel CST double jacket Multi Loose Tube Cable
- Armored Corrugated Steel CST double jacket double steel Multi Loose Tube Cable



## Application

Outdoor Armored Multi Loose Tube Corrugated Steel CST Cable bundles assemblies consist of a between 12~288 core, that enables installation of in building wiring applications. The fiber assemblies are bundled with outer sheath is a color coating fiber and filled with waterproof compounds. A layer of outer Jacket extruded outside the loose tube with two parallel metal Strength members embedded in the Jacket layer that is of low friction. This fiber cable is applied in Duct, cable trays and FTTx Access installations. Used in access network indoor and outdoor in customer premises network. Used as access building cable in premises distribution system, especially used in indoor and outdoor access cabling, the design makes the fiber cable are suitable for the following applications:

- Used as access building cable
- Vertical Backbone Networks
- Direct buried Outdoor cabling
- Distribution system cable

### Mechanical Performance Test compliance

- Tension: IEC 60794-1-21 Method E1
- Bend: IEC 60794-1-21 Method E11
- Crush: IEC 60794-1-21 Method E3

### Temperature Performance

- Storage [°C]: -40 to +70
- Installation [°C]: -20 to +60
- Operation [°C]: -40 to +70

## Technical Specifications

Items	Unit	Specifications
Cable Dimension	mm	12 to 17
Tension (Long Term)	N	1200
Tension (Short Term)	N	3500
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	3000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70

## Packaging

Standard length of cable is 4,000 meters. Other cable length is also available if required by customer. Each length of the cable shall be wound on a separate wooden reel.

Both ends of the cable shall be sealed with a suitable plastic cap to prevent the entry of moisture during shipping, handling and storage.

The cable ends shall be securely fastened to the reel to prevent the cable from becoming loose in transit or during placing operations.

## Marking

The jacket shall be marked with white characters at intervals of one meter with following information. Other marking is also available if requested by customer.

- 1) Cable type and fiber number
- 2) Name of the manufacturer
- 3) Year of manufacture
- 4) Length marking

## Ordering Information

Product Code	Description
LN-LW-xxF-CST-SM-SJ-MLT	Armored Corrugated Steel CST single jacket Multi Loose Tube Fiber Cable Single Mode
LN-LW-xxF-CST-SM-DJ-MLT	Armored Corrugated Steel CST double jacket Multi Loose Tube Fiber Cable
LN-LW-xxF-2CST-SM-DJ-MLT	Armored Corrugated double Steel CST double jacket Multi Loose Tube Cable

**\* Note:**

xx= For the number of fibers

\*\* All cables are available in Singlemode or Multimode

**Notice:** The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.