



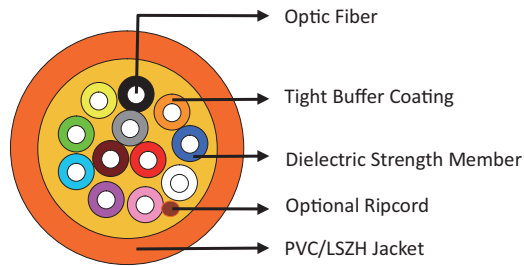
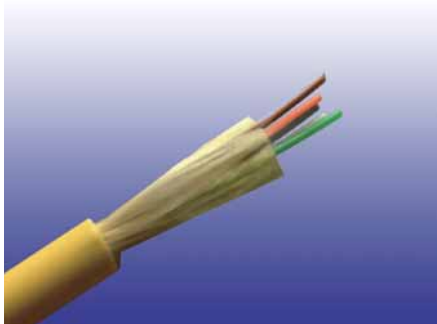
# TIGHT BUFFER DISTRIBUTION PVC/LSZH JACKETED CABLE

## ► Application

This cable is used for interconnection of the distribution boxes and end devices. The cable is very suitable for various indoor and outdoor applications, including routing between buildings within ducts and inside building up to riser shafts.

## ► Description

The Distribution Cable consists of color-coded PVC tight buffered fibers. The fibers are reinforced with aramid yarn for superior strength and contains no metallic elements. The fibers are jacketed with Flame Retardant PVC or LSZH compound.



## ► Physical Properties

Fiber Count	Nominal Weight (kg/km)	Nominal Weight (lb/kft)	Nominal Outer Diameter (mm)	Nominal Outer Diameter (in)	Maximum Pulling Load	
					Installation (N/lb)	In Service (N/lb)
2-6	26.0	17.45	5.0	0.197	1000/225	290/65
8-12	50.0	33.56	7.5	0.296	1425/320	500/112
14-24	140.0	93.96	13.0	0.512	2670/600	890/200
26-36	200.0	134.23	16.5	0.650	4448/1000	1490/335
38-48	300.0	201.34	18.0	0.709	4448/1000	1490/335

## ► Mechanical Properties

### Minimum Bending Radius:

Under installation: 20 × OD  
 During operation: 10 × OD

### Temperature Range:

Operating Temperature Range: -40°C (-40°F) to +70°C (+158°F)  
 Storage Temperature Range: -50°C (-58°F) to +70°C (+158°F)

Maximum Compressive Load: 2000N

Repeated Impact: 2.9 N.m (J) 3 × 2 impacts

Twist (Torsion): 180 × 10 times, 125 × OD

Cyclic Flexing: 25 cycles for armoured cables.;  
 100 cycles for unarmoured cables.

Crush Resistance: 1485N/cm (850lb/in)

## ▶ TIGHT BUFFER DISTRIBUTION PVC/LSZH JACKETED CABLE



### ▶ Fiber Compliance

Temperature Cycling	IEC60794-1-2-F2
Tensile Strength	IEC60794-1-2-E1A
Crush	IEC60794-1-2-E3
Impact	IEC60794-1-2-E4
Repeated Bending	IEC60794-1-2-E6
Torsion	IEC60794-1-2-E7
Kink	IEC60794-1-2-E10
Cable Bend	IEC60794-1-2-E11
Cool Bend	IEC60794-1-2-E11

### ▶ Safety Compliance

General Purpose Grade	Flammability Test: OFN(UL1581)
Riser Grade	Flammability Test: OFNR/FT4 (UL1666)
Plenum Grade	Flammability Test: OFNP/FT6(UL 910)
FRPVC Grade	Flammability Test: IEC60332-1
LSZH Grade	Halogen Content Test: IEC 60754-1 Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2
LSFROH Grade	Halogen Content Test: IEC 60754-1 Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2 Flammability Test: IEC60332-1 & IEC 60332-3C/A
FR Grade	Fire Resistance Test: IEC 60331 / BS 6387 CWZ

### ▶ Standard Compliance

GR409-CORE	TIA/EIA 568B.3	ICEA-S-83-596
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### ▶ Features

- Used in LAN and distribution applications where compact size and lightweight are required
- Suitable for both indoor and outdoor use - no need for splicing at the building entrance
- Flame-retardant or LSZH version for indoor installations
- Fungus-resistant, water-resistant, and UV-resistant for outdoor installations
- Cable can be armoured for additional protection in direct burial and aerial installations
- Highest specific strength-to-weight ratio for limited conduit space
- Economical for longer distance runs where cable cost is significant
- High quality tight-buffered coating on fiber for environmental and mechanical protection