

## ▶ TIGHT BUFFER PVC/LSZH JACKETED SIMPLEX / DUPLEX CORD



### ▶ Application

This cable is mainly used for interconnecting cable for jumpers, patch cords or pigtails.

### ▶ Description

#### Simplex

Simplex cable consists of single tight buffered fiber with aramid yarns as tensile strength members with jacket of either Flame Retardant PVC or LSZH compound. The cable is unconnectorized.

#### Duplex Flat

Duplex Flat Cable consists of two simplex units. Two simplex cords are placed side by side and jacketed with either Flame Retardant PVC or LSZH compound. The cable is unconnectorized.

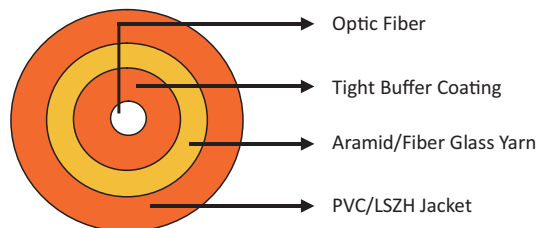
#### Duplex Round

Duplex Round Cable consists of two single fibers, each with a color-coded PVC tight buffer. They are reinforced with aramid yarn to provide physical and tensile strength. The fibers are jacketed with either Flame Retardant PVC or LSZH compound. The cable is unconnectorized.

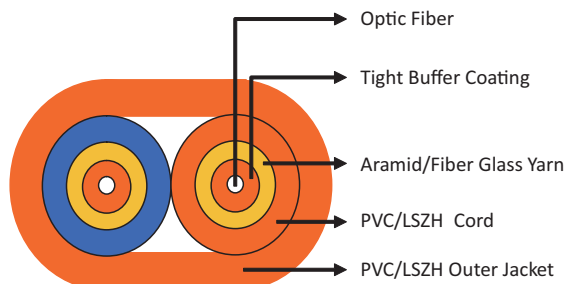
#### Duplex Zip

Duplex Zipcord Cable consists of two single fibers, each with a color-coded PVC tight buffer. They are reinforced with aramid yarn to provide physical and tensile strength. The fibers have either Flame Retardant PVC or LSZH compound jackets connected by a web to form a “zipcord” construction. The cable is unconnectorized.

### ▶ Construction



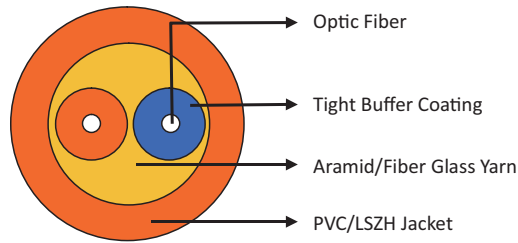
Simplex –PVC/LSZH Cable



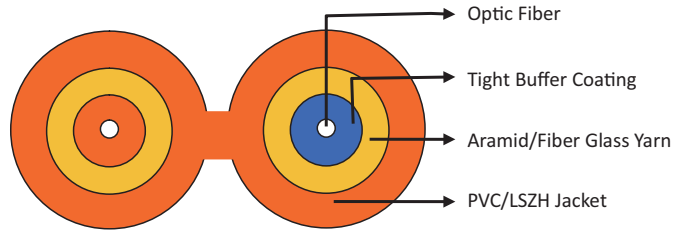
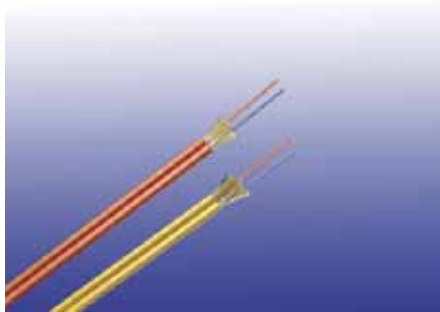
Duplex Flat-PVC/LSZH Cable



# TIGHT BUFFER PVC/LSZH JACKETED SIMPLEX / DUPLEX CORD



Duplex Round-PVC/LSZH Cable



Duplex Zip-PVC/LSZH Cable

## Physical Properties

Fiber Count	Cable Type	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)
1	Simplex 2.0mm	7.6	5.10	2.0	0.079	490/110	290/65
1	Simplex 2.5mm	7.8	5.23	2.5	0.098	490/110	290/65
1	Simplex 2.8mm	8.0	5.37	2.8	0.110	490/110	290/65
1	Simplex 3.0 mm	8.2	5.50	3.0	0.118	490/110	290/65
2	Duplex Flat	28.0	18.79	4.0×6.8	0.157×0.267	980/220	580/130
2	Duplex Round	18.4	12.35	4.2	0.165	980/220	580/130
2	Duplex Zip	15.0	10.07	2.4×4.8	0.094×0.188	980/220	580/130

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### ▶ Mechanical Properties

<b>Minimum Bending Radius:</b>		<b>Maximum Compressive Load:</b> 2000N
Under installation:	20×OD	<b>Repeated Impact:</b> 2.9 N.m (J) 3×2 impacts
During operation:	10×OD	<b>Twist (Torsion):</b> 180×10 times, 125×OD
<b>Temperature Range:</b>		<b>Cyclic Flexing:</b> 25 cycles for armoured cables.; 100 cycles for unarmoured cables.
Operating Temperature Range:	-40°C(-40°F) to +70°C(+158°F)	<b>Crush Resistance:</b> 875N/cm (500lb/in)
Storage Temperature Range:	-50°C(-58°F) to +70°C(+158°F)	

### ▶ Fiber Compliance

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

### ▶ Safety Compliance

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

- Suitable for indoor use, such as routing connections in patching systems
- Short "patch cord" cables ideal for links between electronic equipment and fiber panels
- Compatible with wide variety of fiber optic connectors
- High quality tight-buffer coating on fiber for environmental and mechanical protection
- Customized jacket colors available for matching connectors.
- Private labeling on the cable outer jacket is also available.