TIGHT BUFFER DISTRIBUTION PVC/LSZH JACKETED CABLE
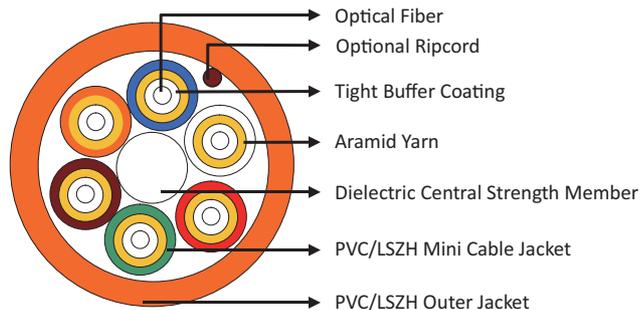
▶ Application

Breakout Cable is designed for routing to different locations and direct termination of fibers in the field. The cable is mostly suitable for pre-terminated cable assemblies.

▶ Description

The cable contains 2 to 36 fibers which are individually buffered tight or semi-tight construction. Each fiber is individually protected in a mini cable. Aramid yarn will be applied either inside the mini cable or within the inner jacket of the cable. The color coded mini cable may be stranded around a central strength member which can be either FRP or flexible all-dielectric. Outer Jacket may be PVC or LSZH.

▶ Construction

- Optical Fiber
- Optional Ripcord
- Tight Buffer Coating
- Aramid Yarn
- Dielectric Central Strength Member
- PVC/LSZH Mini Cable Jacket
- PVC/LSZH Outer Jacket

▶ 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	50.0	33.56	5.5	0.217	1200/270	490/110
6	110.0	73.83	12.5	0.493	2000/450	800/180
12	160.0	107.38	13.0	0.512	3515/790	1200/270
24	230.0	154.36	15.5	0.611	5470/1230	2000/450

▶ Mechanical Properties

Minimum Bending Radius:

Under installation: 20×OD

During operation: 10×OD for unarmoured cables

20×OD for armoured cables

Temperature Range:

Operating Temperature Range: -40℃(-40℉) to +70℃(+158℉)

Storage Temperature Range: -50℃(-58℉) to +70℃(+158℉)

Maximum Compressive Load:3000N for unarmoured

5000N for armoured

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: 1750N/cm (1000lb/in)

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▶ 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

GR-409-CORE   TIA/EIA 568B.3   ICEA-S-83-596

▶ Features

- Most rugged and "user friendly" cable design for Local Area Networks
- For installations where ease of termination and termination costs are important factors
- Short and moderate distance links between buildings or within a building, where multiple termination points are needed
- Breakout cables are designed for direct termination with standard connectors
- Cable ideal for direct pulling with wire mesh grips
- Suitable for both indoor and outdoor use -- no need to for splicing at the building entrance
- Flame-retardant or LSZH version for indoor installations
- Fungus-resistant, water-resistant, and UV-resistant for outdoor use
- High quality tight-buffered coating on each fiber for environmental and mechanical protection