

75 Ohm Coaxial Cable with Miniflex® Flexible Fiber



P6EF1T77VRRF

General Description:

6 series coaxial cable with Paired Miniflex® Fiber, Perfect Prep®, Tri-Shield, 77% Braid, Footage Marked, Reel package, Riser Rated

Center Conductor: Copper covered steel

Nominal Diameter: 0.040"(1.02 mm)

Dielectric: Closed cell foamed polyethylene

Nominal Diameter over Dielectric: 0.180" (4.57mm)

Shield:

1st Shield: APA laminated tape bonded to dielectric

Nominal Diameter over Tape: 0.188" (4.78 mm)

2nd Shield: 34 AWG aluminum braid wire; 77% coverage

3rd Shield: APA laminated tape

Jacket: Black PVC Riser Rated

Nominal Diameter over Jacket: 0.278" (7.06mm)

Frequency (MHz)	Maximum (dB/100ft)	Maximum (dB/100m)
5	0.58	1.9
55	1.55	5.09
211	3.00	9.84
250	3.20	10.5
300	3.50	11.48
350	3.80	12.47
400	4.12	13.52
450	4.37	14.34
500	4.63	15.19
550	4.86	15.94
600	5.08	16.67
750	5.65	18.54
870	6.10	20.01
1000	6.54	21.46



NEC Rated: NEC CATVR

Electric Properties:

Impedance: 75 +/- Ohms

Velocity Propagation: 85% Nominal

Cable Length Per Reel: 1,000 ft. (305 m)

Unless otherwise specified, dimensions, material, electrical and mechanical specifications shall comply with ANSI SCTE 74

This product may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

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Miniflex®

General Description:

Miniflex® standard fiber cable is a flexible, pushable fiber optic cable made from a crush resistant, durable polymer. It has exceptionally low weight for the level of strength and protection it provides. Miniflex standard fiber cable is available with many different counts & types of fiber, including G.657A1 singlemode and G.651 0M3 multimode.

Advantages:

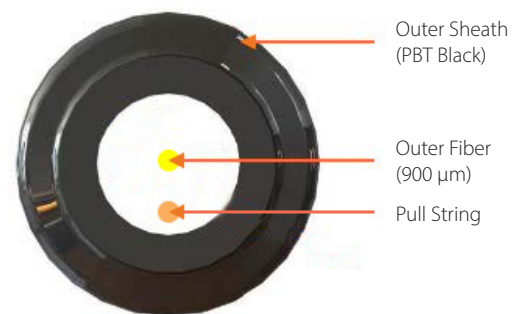
- Fire retardant
- UV stabilized
- Features Miniflex technology
- Lightweight/small diameter
- Grooving increases flexibility/bend radius
- Very high crush resistance
- Uses industry-standard fiber
- Ultra tough
- Class-leading combination of size, crush resistance, flexibility and fiber density

Cable Material Information							
Fiber Count	Weight (kg/km)	OD (mm)	Sheath Thickness (mm)	Tension Strength (n)	Minimum Bend Radius		Crush Resistance (n)
					Installation (mm)	Operation (mm)	
1 (900 μm)	8.1	3.0	0.8	100	15	30	950
Material	Properties		Best for		Color	Operating Temp	Installation Temp
PBT	Hardest & toughest outdoor material, some UV resistance		Indoor - (FR) Outdoor - (UV stable)		Black*	-40 °C to + 80 °C	-20 °C to + 60 °C

*Other colors available upon request

Transmission Performance Specification	
Item	Single mode 900μm
Specification	G657 A2
Attenuation (850/1300 nm)	n/a
Attenuation (1310/1550nm)	0.4/0.3 dB/km
Attenuation at 1625 nm	< 0.24 dB/km
Refractive Index at 1310nm, 1550nm	1.467, 1.468 dB
Refractive Index at 850nm, 1300nm	n/a
Proof test	0.69 GPa (100k psi), 1% min.
Cladding diameter	125 ± 0.7 μm
Coated diameter	235 μm to 245 μm
Core/Cladding concentricity error	≤ 0.5 μm
Coating concentricity error	≤ 12 μm
Macro bend loss (1550 nm)	
10 turns at 50mm diameter	n/a
10 turns at 15mm diameter	≤ 0.03 dB
1 turn at 10mm diameter	≤ 0.10 dB
1 turn at 7.5 diameter	≤ 0.50 dB

1 Fiber Cable



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