BW CF

SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductor dimensions are tightly controlled to limit resistance unbalance of twisted pairs; pair twist lays are varied to minimize crosstalk and meet capacitance unbalance limits
Core Covering	Non-hygroscopic core wrap
Filling Compound	Wire core is completely filled with 80°C ETPR compound, filling the air spaces between insulated conductors
Shield	Corrugated copper clad steel or bronze tape longitudinally applied over the core wrap
Rip cord	Rip cord applied over shield and beneath jacket
Jacket	Weather-resistant PVC
Standards Compliance	Telcordia GR-3163-CORE ANSI/ICEA S-86-634-2011 RoHS-compliant

PRODUCT DESCRIPTION

BW CF is designed for direct burial applications and is available in 2, 3, 5 and 6-pair sizes. It is filled with an ETPR compound which is chemically and electrically compatible with all other materials in the wire. The compound completely coats each insulated conductor and fills the air space between conductors. BW CF can also be used for distribution circuits and service entrance wires. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. black, weather-resistant polyvinylchloride jacket is extruded over the shield and rip cord to protect the core from minor mechanical damage, degradation by sunlight and ingress of moisture and water.

FEATURES	BENEFITS
• Non-hygroscopic core wrap	• Protects the core and provides improved mechanical and electrical characteristics
• Adhesive compound floods shield's outer surface	• Provides a moisture barrier and inhibits corrosion
• Rip cord	• Facilitates jacket removal

ELECTRICAL SPECIFICATIONS

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair	Dielectric Strength Minimum Volts DC	
					Conductor to Conductor	Conductor to Shield
22 (0.64)	1,000 (1,600)	4.4 (14)	91 (56.5)	5.0	5,000	15,000

All Pairs	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)
Maximum Pair	94 (58)
Maximum Average	90 (56)

Crosstalk Loss	dB/kft (dB/km)
Minimum NEXT @ 722 kHz	44 (144)

Capacitance Unbalance @ 1000 Hz	pF @ 1 kft (pF @ 1 km)
Maximum Individual Pair to Pair	80 (145)
Maximum Individual Pair to Ground	800 (2,625)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
25-722-80	2	19 (0.90)	0.32 (8.1)	62 (92)	1,600 (488)	Reel
25-759-80	2	19 (0.90)	0.32 (8.1)	62 (92)	5,000 (1,524)	Reel
25-351-80	3	22 (0.64)	0.30 (7.6)	53 (79)	500 (152)	Coil
25-360-80	3	22 (0.64)	0.30 (7.6)	53 (79)	1,200 (366)	Reel
25-353-80	3	22 (0.64)	0.30 (7.6)	53 (79)	3,000 (915)	Reel
25-358-80	3	22 (0.64)	0.30 (7.6)	53 (79)	5,000 (1,524)	Reel
25-667-80	6	22 (0.64)	0.37 (9.4)	81 (121)	600 (183)	Coil
25-680-80	6	22 (0.64)	0.37 (9.4)	81 (121)	700 (214)	Reel
25-685-80	6	22 (0.64)	0.37 (9.4)	81 (121)	1,200 (366)	Reel
25-654-80	6	22 (0.64)	0.37 (9.4)	81 (121)	2,500 (762)	Reel
25-682-80	6	22 (0.64)	0.37 (9.4)	81 (121)	4,000 (1,219)	Reel
25-681-80	6	22 (0.64)	0.37 (9.4)	81 (121)	800 (244)	Reel
25-658-80	6	22 (0.64)	0.37 (9.4)	81 (121)	5,000 (1,524)	Reel
25-684-80	6	22 (0.64)	0.37 (9.4)	81 (121)	12,000 (3,660)	Reel

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