

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

- Non-hygroscopic core wrap
- Adhesive compound floods shield's outer surface
- Rip cord

Benefits

- Protects the core and provides improved mechanical and electrical characteristics
- Provides a moisture barrier and inhibits corrosion
- Facilitates jacket removal



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-86-634-2004 RoHS-compliant |

Electrical Specifications

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

| 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 |

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

| Capacitance Unbalance @ 1000 Hz | pF/kft (pF/km) |
|-----------------------------------|----------------|
| Maximum Individual Pair to Pair | 80 (262) |
| 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 |
| 25-063-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 250 (76) | Coil |
| 25-069-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 1,300 (396) | Reel |
| 25-078-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 8,250 (2,514) | Reel |
| 25-062-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 700 (214) | Coil |
| 25-061-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 1,500 (457) | Reel |
| 25-064-80 | 2 | 22 (0.64) | 0.27 (6.9) | 43 (64) | 3,000 (915) | 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 |
| 25-530-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 300 (92) | Reel |
| 25-154-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 500 (152) | Coil |
| 25-527-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 900 (274) | Reel |
| 25-549-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 5,500 (1,676) | Reel |
| 25-525-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 925 (282) | Reel |
| 25-526-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 1,200 (366) | Reel |
| 25-565-80 | 5 | 22 (0.64) | 0.33 (8.4) | 67 (100) | 2,500 (762) | 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 |