

## PRODUCT DESCRIPTION

BDW A is a filled, double-jacketed buried wire intended for direct burial applications. Applications include distribution circuits and service entrance wires. BDW A is designed to withstand installation stresses. BDW A is filled with an ETPR compound, which completely coats each insulated conductor and fills the air space between conductors. BDW A is recommended for non-gopher areas. 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.

## APPLICATIONS

- Direct burial
- Distribution circuits and service entrance wires

## FEATURES

- Polyethylene inner jacket
- Polyethylene outer jacket
- Dual rip cords

## BENEFITS

- Provides additional mechanical and moisture protection
- Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations
- 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
Filling Compound	Wire core is completely filled with 80°C ETPR compound, filling the air spaces between insulated conductors
Inner Jacket	Polyethylene
Shield	Smooth, copolymer-coated, 8 mil aluminum tape applied longitudinally over inner jacket and bonded to outer jacket; space under the tape is flooded to eliminate all air space
Outer Jacket	Black, polyethylene
Standards Compliance	ANSI/ICEA S-86-634-2011 RoHS-compliant

## ELECTRICAL SPECIFICATIONS

All Pairs	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
Wire Average	83 ± 7 (52 ± 4)

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
19 (0.90)	1,000 (1,600)	3.1 (10.2)	45 (28.0)	5.0	7,000	20,000
22 (0.64)	1,000 (1,600)	4.4 (14.4)	91 (56.4)	5.0	5,000	20,000
24 (0.51)	1,000 (1,600)	5.5 (18.0)	144 (89.5)	5.0	4,000	20,000

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
04-023-85	2	19 (0.90)	0.38 (9.7)	65 (97)	5,000 (1,524)	Reel
04-025-85	3	19 (0.90)	0.42 (11)	85 (125)	5,000 (1,524)	Reel
04-052-84	2	22 (0.64)	0.32 (8.1)	45 (65)	1,000 (305)	Reel
04-053-84	2	22 (0.64)	0.32 (8.1)	45 (65)	2,500 (762)	Reel
04-055-84	2	22 (0.64)	0.32 (8.1)	45 (65)	5,000 (1,524)	Reel
04-056-84	3	22 (0.64)	0.33 (8.4)	50 (75)	1,000 (305)	Reel
04-062-84	3	22 (0.64)	0.33 (8.4)	50 (75)	2,500 (762)	Reel
04-058-84	3	22 (0.64)	0.33 (8.4)	50 (75)	5,000 (1,524)	Reel
04-061-85	6	22 (0.64)	0.41 (10)	80 (120)	1,000 (305)	Reel
04-058-85	6	22 (0.64)	0.41 (10)	80 (120)	2,500 (762)	Reel
04-057-85	6	22 (0.64)	0.41 (10)	80 (120)	5,000 (1,524)	Reel
04-098-85	2	24 (0.51)	0.27 (6.9)	30 (45)	5,000 (1,524)	Reel
04-101-85	3	24 (0.51)	0.29 (7.4)	40 (60)	5,000 (1,524)	Reel
04-097-85	6	24 (0.51)	0.35 (8.9)	55 (80)	5,000 (1,524)	Reel