

BDW G



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	Corrugated, 5 mil gopher resistant armor applied longitudinally over the inner jacket and flooded
Outer Jacket	Black polyethylene
Standards Compliance	*RDUP 7 CFR 1755.860 (PE-86) ANSI/ICEA S-86-634-2011 RoHS-compliant

PRODUCT DESCRIPTION

BDW G is a filled, double-jacketed buried wire intended for direct burial applications. Applications include distribution circuits and service entrance wires. All types are designed to withstand installation stresses. They are filled with an ETPR compound, which completely coats each insulated conductor and fills the air space between conductors. BDW G also provides protection from rodents or harsh environments. 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.

FEATURES

- Polyethylene inner jacket
- Corrugated armor
- Polyethylene outer jacket

BENEFITS

- Provides additional mechanical and moisture protection
- Gopher resistant
- Provides excellent mechanical protection
- Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

All Pairs		Average Mutual Capacitance @ 1,000 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
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

Minimum NEXT @ 722 kHz	Crosstalk Loss dB/kft (dB/km)	Capacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)	
		44 (144)	Maximum Individual Pair to Pair
		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
04-052-17	2	22 (0.64)	0.32 (8.1)	55 (80)	1,000 (305)	Reel
04-053-17	2	22 (0.64)	0.32 (8.1)	55 (80)	2,500 (762)	Reel
04-055-17	2	22 (0.64)	0.32 (8.1)	55 (80)	5,000 (1,524)	Reel
04-056-17	3	22 (0.64)	0.33 (8.4)	60 (90)	1,000 (305)	Reel
04-057-17	3	22 (0.64)	0.33 (8.4)	60 (90)	2,500 (762)	Reel
04-058-17	3	22 (0.64)	0.33 (8.4)	60 (90)	5,000 (1,524)	Reel
04-067-16*	6	22 (0.64)	0.40 (10)	90 (135)	1,000 (305)	Reel
04-062-16*	6	22 (0.64)	0.40 (10)	90 (135)	2,500 (762)	Reel
04-057-16*	6	22 (0.64)	0.40 (10)	90 (135)	5,000 (1,524)	Reel
04-094-16	2	24 (0.51)	0.27 (6.9)	40 (60)	5,000 (1,524)	Reel
04-091-16	3	24 (0.51)	0.29 (7.4)	45 (65)	5,000 (1,524)	Reel

PRODUCT DESCRIPTION

BW GDJ, available in 2, 3, 5 and 6-pair sizes, is intended for direct burial applications and is well-suited to withstand installation stresses. 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 GDJ effectively combats attacks by rodents. It can be used for distribution circuits and service entrance wires. Each conductor is insulated with solid polyolefin 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. A black, polyvinyl chloride jacket is extruded over the armor to protect the core from minor mechanical damage, degradation by sunlight and the ingress of moisture.

FEATURES

- Polyethylene inner jacket
- Corrugated armor
- Armor's inner and outer surfaces are flooded
- Rip cord

BENEFITS

- Provides additional mechanical and moisture protection
- Gopher resistant
- Prevents water flow between the shield and outer jacket
- Facilitates jacket removal



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Conductors are twisted into pairs in a manner designed to minimize resistance unbalance; pair twist lays are varied to minimize crosstalk
Filling Compound	Wire core is completely filled with 80°C ETPR compound, filling the air spaces between insulated conductors
Inner Jacket	Polyethylene inner jacket; outer surface flooded
Armor	Corrugated armor applied longitudinally over the inner jacket; inner and outer surfaces of the armor are flooded
Rip cord	Rip cord is applied beneath the inner jacket; a second rip cord can also be applied under the outer jacket
Jacket	Weather resistant PVC
Standards Compliance	Telcordia® GR-3163-CORE ANSI/ICEA S-86-634-2011 RoHS-compliant

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ELECTRICAL SPECIFICATIONS

All Pairs		Average Mutual Capacitance @ 1,000 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	
19 (0.90)	1,000 (1,600)	3.1 (11)	45 (28.0)	5.0	7,000	20,000	
22 (0.64)	1,000 (1,600)	4.4 (14)	91 (56.5)	5.0	5,000	20,000	

Crosstalk Loss dB/kft (dB/km)		Capacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)	
Minimum NEXT @ 722 kHz	44 (144)	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
25-020-79	2	19 (0.90)	0.37 (9.4)	80 (119)	900 (275)	Reel
25-021-79	2	19 (0.90)	0.37 (9.4)	80 (119)	7,000 (2,135)	Reel
25-063-79	2	22 (0.64)	0.37 (9.4)	80 (119)	600 (183)	Coil
25-064-79	2	22 (0.64)	0.37 (9.4)	80 (119)	5,000 (1,524)	Reel
25-351-79	3	22 (0.64)	0.33 (8.4)	70 (104)	500 (152)	Coil
25-355-79	3	22 (0.64)	0.33 (8.4)	70 (104)	600 (183)	Reel
25-360-79	3	22 (0.64)	0.33 (8.4)	70 (104)	1,200 (366)	Reel
25-354-79	3	22 (0.64)	0.33 (8.4)	70 (104)	3,000 (915)	Reel
25-361-79	3	22 (0.64)	0.33 (8.4)	70 (104)	8,000 (2,438)	Reel
25-552-79	5	22 (0.64)	0.38 (9.0)	90 (134)	500 (152)	Coil
25-555-79	5	22 (0.64)	0.38 (9.0)	90 (134)	1,000 (305)	Reel
25-547-79	5	22 (0.64)	0.38 (9.0)	90 (134)	2,000 (610)	Reel
25-553-79	5	22 (0.64)	0.38 (9.0)	90 (134)	5,000 (1,524)	Reel
25-681-79	6	22 (0.64)	0.40 (10.0)	100 (149)	800 (244)	Reel
25-654-79	6	22 (0.64)	0.40 (10.0)	100 (149)	350 (107)	Coil
25-662-79	6	22 (0.64)	0.40 (10.0)	100 (149)	1,000 (305)	Reel
25-663-79	6	22 (0.64)	0.40 (10.0)	100 (149)	2,000 (610)	Reel
25-653-79	6	22 (0.64)	0.40 (10.0)	100 (149)	3,000 (915)	Reel
25-658-79	6	22 (0.64)	0.40 (10.0)	100 (149)	5,000 (1,524)	Reel