

Buried Distribution and Service Wire

BDW A

Product Description

BDW A is a filled, doubled-jacketed buried wire intended for direct burial applications. It 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. It is recommended for non-gopher areas.



Conductor

Solid annealed copper

Insulation

Polyolefin, colour code

Inner & Outer Jacket

Black, 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.

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 and unbalance limits.

Approvals

ANSI/ICEA S-86-634-2004
RoHS-Compliant

Applications

Distribution circuits and service entrance wires

Product Code	AWG Size (mm)	# of Pairs	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Colour Code
37D2202	22 (0.64)	2	0.32 (8.1)	45 (65)	5
37D2203	22 (0.64)	3	0.33 (8.4)	50 (75)	5

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)

22 (0.64)

Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)

1,000 (1,600)

Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)

4.4 (14.4)

Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (ohms/km)

91 (56.4)

DC Resistance Unbalance Maximum % Individual Pair

5.0

Dielectric Strength Minimum Volts DC Conductor to Conductor

5,000

Dielectric Strength Minimum Volts DC Conductor to Shield

20,000

Chart No. 5* Paired

Pair #	Colour	Pair #	Colour	Pair #	Colour
1	Blue/White	11	Blue/Black	21	Blue/Purple
2	Orange/White	12	Orange/Black	22	Orange/Purple
3	Green/White	13	Green/Black	23	Green/Purple
4	Brown/White	14	Brown/Black	24	Brown/Purple
5	Grey/White	15	Grey/Black	25	Grey/Purple
6	Blue/Red	16	Blue/Yellow	26	Blue/Pink
7	Orange/Red	17	Orange/Yellow	27	Orange/Pink
8	Green/Red	18	Green/Yellow	28	Green/Pink
9	Brown/Red	19	Brown/Yellow	29	Brown/Pink
10	Grey/Red	20	Grey/Yellow	30	Grey/Pink

***Note:** In cable constructions containing more than 25 pair, the colours are repeated as necessary. Colour coded binders are used to identify 25 pair groups of colour coded pairs.

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