

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
1	Blue/White
2	Orange/White
3	Green/White
4	Brown/White
5	Grey/White
6	Blue/Red
7	Orange/Red
8	Green/Red
9	Brown/Red
10	Grey/Red

Pair #	Colour
11	Blue/Black
12	Orange/Black
13	Green/Black
14	Brown/Black
15	Grey/Black
16	Blue/Yellow
17	Orange/Yellow
18	Green/Yellow
19	Brown/Yellow
20	Grey/Yellow

Pair #	Colour
21	Blue/Purple
22	Orange/Purple
23	Green/Purple
24	Brown/Purple
25	Grey/Purple
26	Blue/Pink
27	Orange/Pink
28	Green/Pink
29	Brown/Pink
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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