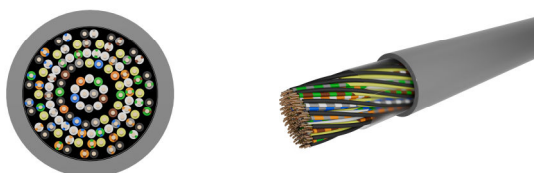


Technical Specification
Cable Type: 1-204x2x0.5 Indoor PVC Switchboard Cable - BC, Grey
Part Number: AU8nnE90
Revision: 14/24 Date: 30 July 2024 Page 1 of 2



1 to 204 Pair PVC Insulated and jacketed indoor cables for switchboard and internal telecom installations.
The cables conform to the following standards: British Telecom CW1293 and CW110J, Bezeq 74.7 & SI 1155 (up to 102 pairs).

Physical Description

Basic Conductor	Solid 24 AWG bare annealed copper
Basic Conductor OD	0.495 mm min. 0.510mm max.
Insulation type	SR-PVC. Min. Tensile strength: 18.5 N/mm ² . Min. Elongation: 125%
Insulation Thickness	0.15 mm min.
Insulation OD	0.92 mm nom. 1.0 mm max. OD.
Pair arrangement	Concentric cabling except 200-Pair & 204-Pair cables
Color code	Bezeq Spec. 74 and BPO CW(M)110 (Page 2)
Overall cable binder (under the jacket)	Polyester tape warp
Rip cord for easy jacket removal	Polyamide rip-cord, 100N min. tensile strength
Outer Jacket	PVC compound for indoor use. Min. Tensile strength: 10.0 N/mm ² . Min. Elongation: 150%
Jacket color	Grey RAL 7005
Surface Marking	WESTERN WIRE AU8nnE90 nnx2x0.5 TELECOM CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER nn shall be replaced with the actual number of pairs in the cable as shown in the table below.

Note

Mechanical Properties

Bend Radius	10xD min.
Storage temperature	-20 to +80°C
Installation & operation temperature	0 to +50°C
Insulation shrink test	200mm insulated wire wrapped around a metal mandrel forming a wrapped length of 25mm. Both wire ends are kept straight for 25mm. The mandrel is conditioned for 2h @ 120°C. The exposed conductor length in either end shall not exceed 1.5mm
Flame Test	IEC 60332-1
Cold bend	-15°C

Electrical Properties @ 20°C

DC Resistance	96.0 Ω/km max.
Insulation resistance	800 MegaΩ·km min. between conductors (dry cable)
Insulation resistance	80 MegaΩ·km min. single conductor (in water)
Mutual Capacitance	100 pF/m max. @ 0.8-1 kHz
Capacitance Unbalance	250 pF/500m max.
Dielectric strength	2000V/1 minute
Voltage rating	72 Vdc max.

Ordering information & Optional Constructions

WW P/N	Cable Construction	Jacket Thickness		Cable OD		Total Weight kg/km
		Min. mm	Nom. mm		Max. mm	
AU801E90	1 x 2 x 0.5	0.4	3.2		3.5	15
AU802E90	2 x 2 x 0.5	0.4	4.3		4.8	20
AU803E90	3 x 2 x 0.5	0.5	4.9		5.3	30
AU804E90	4 x 2 x 0.5	0.5	5.4		5.8	36
AU805E90	5 x 2 x 0.5	0.6	6.1		6.4	48
AU806E90	6 x 2 x 0.5	0.7	6.4		6.8	56
AU808E90	8 x 2 x 0.5	0.7	6.9		7.6	65
AU810E90	10 x 2 x 0.5	0.7	7.7		8.2	82
AU812E90	12 x 2 x 0.5	0.7	8.2		8.6	90
AU816E90	16 x 2 x 0.5	0.8	9.3		10.0	125
AU820E90	20 x 2 x 0.5	0.8	9.8		10.5	145
AU824E90	24 x 2 x 0.5	0.8	11.1		11.3	176
AU825E90	25 x 2 x 0.5	0.8	11.2		11.4	180
AU826E90	26 x 2 x 0.5	0.8	11.3		11.5	184
AU830E90	30 x 2 x 0.5	0.8	11.6		12.0	205
AU832E90	32 x 2 x 0.5	0.8	11.8		12.2	217
AU840E90	40 x 2 x 0.5	0.9	13.5		14.6	270
AU850E90	50 x 2 x 0.5	1.0	15.5		15.7	340
AU860E90	60 x 2 x 0.5	1.0	16.0		16.8	400
AU865E90	65 x 2 x 0.5	1.0	16.5		17.0	422
AU880E90	80 x 2 x 0.5	1.2	18.0		18.5	520
AU8A0E90	100 x 2 x 0.5	1.3	21.0		22.5	655
AU8A2E90	102 x 2 x 0.5	1.3	21.2		22.6	666
AU8B0E90	200 x 2 x 0.5 (4x50x2x0.5)	2.0	31.0		33.0	1280
AU8B4E90	204 x 2 x 0.5 (4x51x2x0.5)	2.0	31.0		33.1	1300

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Color Code					
No.	1st Wire	2nd Wire	No.	1st Wire	2nd Wire
1	White	Blue	51	Black	White/Orange
2	White	Orange	52	Black	Orange/Green
3	White	Green	53	Black	Orange/Brown
4	White	Brown	54	Black	Grey/Orange
5	White	Grey	55	Black	White/Green
6	White	White/Blue	56	Black	Green/Brown
7	White	Orange/Blue	57	Black	Grey/Green
8	White	Green/Blue	58	Black	White/Brown
9	White	Brown/Blue	59	Black	Grey/Brown
10	White	Grey/Blue	60	Black	White/Grey
11	White	White/Orange	61	Violet	Blue
12	White	Orange/Green	62	Violet	Orange
13	White	Orange/Brown	63	Violet	Green
14	White	Grey/Orange	64	Violet	Brown
15	White	White/Green	65	Violet	Grey
16	White	Green/Brown	66	Violet	White/Blue
17	White	Grey/Green	67	Violet	Orange/Blue
18	White	White/Brown	68	Violet	Green/Blue
19	White	Grey/Brown	69	Violet	Brown/Blue
20	White	White/Grey	70	Violet	Grey/Blue
21	Yellow	Blue	71	Violet	White/Orange
22	Yellow	Orange	72	Violet	Orange/Green
23	Yellow	Green	73	Violet	Orange/Brown
24	Yellow	Brown	74	Violet	Grey/Orange
25	Yellow	Grey	75	Violet	White/Green
26	Yellow	White/Blue	76	Violet	Green/Brown
27	Yellow	Orange/Blue	77	Violet	Grey/Green
28	Yellow	Green/Blue	78	Violet	White/Brown
29	Yellow	Brown/Blue	79	Violet	Grey/Brown
30	Yellow	Grey/Blue	80	Violet	White/Grey
31	Yellow	White/Orange	81	Red	Blue
32	Yellow	Orange/Green	82	Red	Orange
33	Yellow	Orange/Brown	83	Red	Green
34	Yellow	Grey/Orange	84	Red	Brown
35	Yellow	White/Green	85	Red	Grey
36	Yellow	Green/Brown	86	Red	White/Blue
37	Yellow	Grey/Green	87	Red	Orange/Blue
38	Yellow	White/Brown	88	Red	Green/Blue
39	Yellow	Grey/Brown	89	Red	Brown/Blue
40	Yellow	White/Grey	90	Red	Grey/Blue
41	Black	Blue	91	Red	White/Orange
42	Black	Orange	92	Red	Orange/Green
43	Black	Green	93	Red	Orange/Brown
44	Black	Brown	94	Red	Grey/Orange
45	Black	Grey	95	Red	White/Green
46	Black	White/Blue	96	Red	Green/Brown
47	Black	Orange/Blue	97	Red	Grey/Green
48	Black	Green/Blue	98	Red	White/Brown
49	Black	Brown/Blue	99	Red	Grey/Brown
50	Black	Grey/Blue	100	Red	White/Grey

Notes:

1. All colors shall conform to BS6746C and shall be stable in the temperature operating range of the cable.
2. In dual color wires, the first color indicated shall be the color of the wire insulation. The second color shall be applied as annular rings.
3. The width of the rings shall be 1.5mm min.
4. The distance between the color rings shall not exceed 15.0 mm so they shall be clearly visible each 15mm along the cable.
5. The applied color rings shall not cover more than 40% of the basic insulation in any section along the wires.
6. 200-Pair cables shall be made of 4 groups, 50 pairs each, cabled together. The 4 groups shall have identical color code (1-50) and they will be identified by colored markers: Blue, Orange, Green & Brown.
7. 204-Pair cables shall be made of 4 groups, 51 pairs each, cabled together. The 4 groups shall have identical color code (1-51) and they will be identified by colored markers: Blue, Orange, Green & Brown.

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)