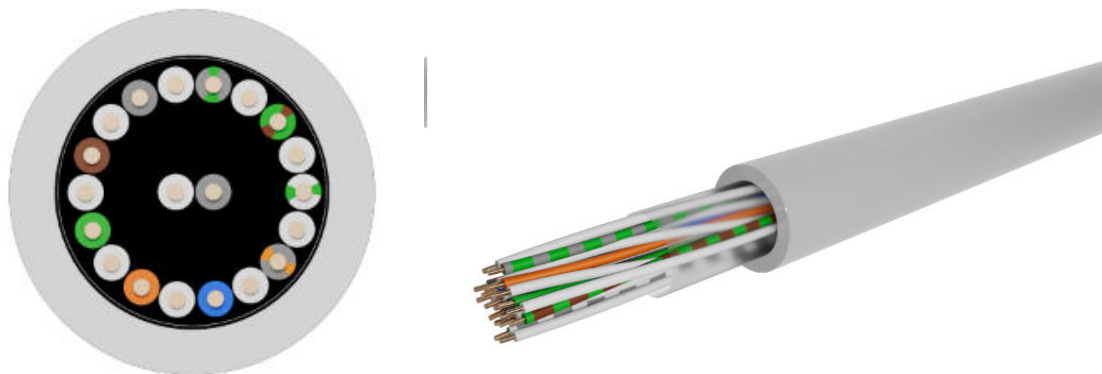


Technical Specification
Cable Type: 1-10x2x0.5 Indoor PVC Switchboard Cable - BC, White
Part Number: AU8nnE20
Revision: 13/24 Date: 30 July 2024



1 to 10 Pair PVC Insulated and jacketed indoor cables for switchboard and internal telecom installations. The cables conform to British Telecom CW1293 and CW110J, Bezeq 74.7 & SI 1155

Physical Description

Basic conductor	Solid 24 AWG, bare annealed copper
Basic conductor OD	0.495 mm min. 0.510mm max.
Insulation type	SR-PVC
Insulation thickness	0.15 mm min.
Insulation OD	0.92 mm nom. 1.0 mm max. OD.
Pair arrangement	Concentric cabling.
Color code	Bezeq Spec. 74 and BPO CW(M)110 (see page 2)
Overall cable binder (under the jacket)	Polyester tape warp
Rip cord for easy jacket removal	Polyamide rip-cord, 50N min. tensile strength
Outer jacket	PVC compound for indoor use
Jacket color	White, RAL 9003
Surface marking	WESTERN WIRE AU8nnE20 nnx2x0.5 TELECOM CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER

Note

nn shall be replaced with the actual number of pairs in the cable as shown in the table below.

Mechanical Properties

Bend radius	10xD min.
Storage temperature	-20 to +80°C
Installation & operation temperature	0 to +50°C
Flame test	IEC 60332-1
Insulation elongation	125% Min.
Jacket elongation	150% Min.
Insulation tensile strength	18.5 N/mm ² Min.
Jacket tensile strength	10.0 N/mm ² Min.
Insulation shrink test	200 mm 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.

Electrical Properties @ 20°C

DC Resistance	96.0 Ω/km max.
Insulation resistance	800 MΩ·km min between conductors (dry cable)
Insulation resistance	80 MΩ·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
		Min. mm	Nom. mm	Max. mm		
AU801E20	1 x 2 x 0.5	0.4	3.2	3.5		15
AU802E20	2 x 2 x 0.5	0.4	4.3	4.8		20
AU803E20	3 x 2 x 0.5	0.5	4.9	5.3		30
AU804E20	4 x 2 x 0.5	0.5	5.4	5.8		36
AU805E20	5 x 2 x 0.5	0.6	6.1	6.4		48
AU806E20	6 x 2 x 0.5	0.7	6.4	6.8		56
AU808E20	8 x 2 x 0.5	0.7	6.9	7.6		65
AU810E20	10 x 2 x 0.5	0.7	7.7	8.2		82

Color Code					
No.	1st Wire	2nd Wire	No.	1st Wire	2nd Wire
1	White	Blue	6	White	White/Blue
2	White	Orange	7	White	Orange/Blue
3	White	Green	8	White	Green/Blue
4	White	Brown	9	White	Brown/Blue
5	White	Grey	10	White	Grey/Blue

Notes:

- All colors shall conform to BS6746C and shall be stable in the temperature operating range of the cable.
- 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.
- The width of the rings shall be 1.5mm min.
- The distance between the color rings shall not exceed 15.0 mm so they shall be clearly visible each 15mm along the cable.
- The applied color rings shall not cover more than 40% of the basic insulation in any section along the wires.

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