



HES Cabling Systems

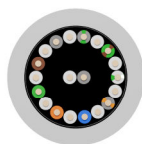
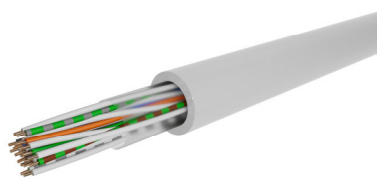
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Technical Specification

Cable Type: 1-10x2x0.5 Indoor Switchboard Cable - BC White LS0H Jacket

Part Number: AU8nnE2L

Revision: 08/24 Date: 25/07/2024



1 to 10 Pair PVC Insulated and LS0H (HFFR) 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 (except the outer jacket).

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.
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, 50N min. tensile strength.
Outer Jacket	LS0H Halogen-Free and Flame-retardant compound for indoor use.
Jacket color	White RAL 9003.
Surface Marking	HCS AU8nnE2L nnx2x0.5 TELECOM CABLE HFFR JACKET FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [
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 rating	-20 to +80°C
Temperature rating during installation	0 to +50°C
Insulation shrink test	200mm insulated wire wrapped around a metal mandrel forming a wrapped length of 25mm. Both wire end
Flame test	IEC 60332-1
Cold bend	-15°C.

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)
Impedance	100 Ω nom. at LF.
Mutual capacitance	100 pF/m max. @ 0.8-1 kHz
Capacitance unbalance	250 pF/500m max.
Voltage rating	72 Vdc max.
Dielectric strength	2000V/ 1 minute.

Construction types

HCS P/N	Cable Construction	Jacket Thickness		Cable OD		Total Weight Kg/Km
		Min. mm	Nom. mm	Max. mm		
AU801E2L	1 x 2 x 0.5	0.4	3.2	3.5		15
AU802E2L	2 x 2 x 0.5	0.4	4.3	4.8		20
AU803E2L	3 x 2 x 0.5	0.5	4.9	5.3		30
AU804E2L	4 x 2 x 0.5	0.5	5.4	5.8		36
AU805E2L	5 x 2 x 0.5	0.6	6.1	6.4		48
AU806E2L	6 x 2 x 0.5	0.7	6.4	6.8		56
AU808E2L	8 x 2 x 0.5	0.7	6.9	7.6		65
AU810E2L	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)