



HALLEY CABLES

JE-H(St)H Bd Z FE180 E30/E90

Halogen free installation cable for industrial electronics.



Construction:

Conductor	: plain copper, solid;
Insulation	: halogen-free elastomer compound, EN 50290-2-26;
Core identification	: VDE 0815 (Z); Z: The bundles are marked by means of a numbered helix;
Pair	: two conductors twisted to a pair;
Bundle	: 4 pairs laid up to a bundle;
Bundle identification	: by spirals with imprinted numbers;
Lay-up	: bundles laid up in layers;
Separator	: polyester tape;
Wrapping	: fiber glass textile tape;
Screen	: with drain wire under the AL-PES tape; Drain wire Phi: 0,80.mm
Outer sheath	: HFFR compound, HM4, VDE 0207-24;
Sheath colour	: orange.

Technical data and tests:

Conductor resistance (loop)	: 0.80 mm : 73.2 MΩ/km;	
Insulation resistance	: Min. 100 MΩ/km;	
Mutual Capacitance	: Max. 100 nF/km;	*This value may be exceeded by 20% by cables with up to 4 pairs.
Capacity Unbalanced	: Max. 200 pF / 100 mt;	*20% of the values, at least one value up to 400 pF permitted.
Operating voltage, peak	: Max. 225 V;	
Test voltage	: Core / core : 500 V; Core/screen : 2000 V;	
Temperature range	: Fixed: - 30° C ~ + 70° C; Mobile: - 5° C ~ + 50° C;	
Min. bending radius	: 7,5 x D.	

Standards:

Smoke density test	: IEC 61034-2 & TS/DIN EN 61034-2;
Halogen-free properties test	: IEC60754-1/2 & TS/DIN EN 50267-2;
Flame test	: IEC 60332-3 & TS/DIN EN 50266-2-4;
Insulation integrity	: IEC 60331 , VDE 0472-814;
Fire resistance with mechanical shock	: DIN EN 50200; PH30-PH60-PH 90;
System circuit integrity	: DIN 4102-12; E30 & E90.

Properties:

Fire resistant.
Halogen free.
Protection against external pulses.
No corrosive gases emitted.
Low development of smoke.

Applications:

This cable (fire proof and halogen free) is used in a fixed operating mode and can continue the supply of power for a period of 180 minutes under fire conditions (at a temperature of 750° C and in the flames). Furthermore, this cable satisfies the EN50200 test which is a fire resistant with mechanical shock test (performed at 842° C and a mechanical shock) by the classes PH15-PH30-PH60-PH90. It also complies with DIN 4102-12, E30 and E90 which is a system of tests meant to ensure that all components are able to maintain the system circuit integrity. These halogen-free screened installation cable's twisted pairs (in pair form) are mainly used for industrial electronics, telecommunication, control and data engineering, where low current consumption is required and transmission of data must be continuous, with the connection of computers, information and transmission systems, the transmission of analogue and digital signals in processor-controlled equipment must be ensured. The screen provides protection against external pulses. These cables are used in schools, airports, hospitals, etc. and in environments which have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of flames and the development of smoke is extremely low.



DIMENSIONS			
No. of Cores x Cross Section mm ²	Approx. Outer Diameter mm	Copper Weight kg/km	Approx. Cable Weight kg/km
2x2x0,80	6,4	21	60
4x2x0,80	8,7	41	100
8x2x0,80	11,4	82	180
12x2x0,80	13,4	123	260
16x2x0,80	14,9	164	320
20x2x0,80	16,4	205	370
24x2x0,80	16,9	245	475
32x2x0,80	20,2	322	570
40x2x0,80	22,2	405	695
80x2x0,80	30,6	810	1340

Any other sizes available on request.

