



HALLEY CABLES

JE-SH(St)SH FE 180-E30/E90 Bd Z

Silicone Cable

Silicone sheathed cable with steel wire braiding

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Construction:

Conductor	: plain copper conductor.
Insulation	: special silicone rubber compound.
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.
Screen	: tinned Cu drain wire under the AL-PES tape. drain wire \varnothing 0,80 mm.
Lay-up	: cores laid up in layers of optimum pitch.
Outer sheath	: special silicone rubber compound.
Sheath colour	: RAL 2009, orange or RAL 3000, red.

Technical data and tests:

Insulation resistance	: min. 100 M Ω /km.
Mutual capacitance (800 Hz)	: max. 120 nF/km. *
Capacity unbalanced (k)	: max. 200 pF/100 mt **
Operating voltage, peak	: max. 225 V.
Test voltage (AC 50 Hz)	: core/core : 500 V; core/screen : 2000 V.
Temperature range	: fixed : - 60° C ~ + 180° C; mobile : - 25° C ~ + 180° C.
Min. bending radius	: fixed : 4 x D; mobile : 15 x D.

* This value may be exceeded by 20% by cables with up to 4 pairs.

** 20% of the values, at least one value up to 400 pF permitted.

Standards:

Cable	: VDE 0250, DIN VDE 0815 (designed according to).
Core identification	: VDE 0815 (Z).
Flame retardance test	: IEC 60332-1 & EN 50265-2-1; IEC 60332-3 & EN 50266-2-4.
Insulation integrity	: IEC 60331, VDE 0472-814.
*Fire resistant with mechanical shock	: DIN EN 50200 ; PH 15 (15 min); PH 30 (30 min); PH 60 (60 min); PH 90 (90 min).

Applications:

This fire proof and halogen free cable is used for control and power supply, on the basis of a fixed operating mode, can continue with the supply of power for a period of 180 minutes under existing fire conditions (750° C and exposed to flames). Furthermore, this cable complies with EN 50200 test which is a fire resistant with mechanical shock test. This is a cable used for industrial electronics, telecommunication, control, data engineering where low current consumptions are required and data transmission must be continuous in transmission systems, or processor-controlled equipment. The screen protects against external pulses and ensures an interference-free transmission. This cable is used at schools, airports, hospitals, etc. and in environments which have no corrosive gases emitted in the event of fire.





DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,80	7,2	21	85
4x2x0,80	10,5	41	135
8x2x0,80	16,5	82	320
12x2x0,80	18,5	123	340
16x2x0,80	20,0	164	445
20x2x0,80	21,8	205	550
24x2x0,80	25,9	245	690
32x2x0,80	28,4	322	875
40x2x0,80	33,6	405	1125
52x2x0,80	36,7	525	1315

***All other cross-sections are available.**

Core identification

Basic colours for pairs

Pair	1		2		3		4	
Core	a	b	a	b	a	b	a	b
Basic colour	blue	red	grey	yellow	green	brown	white	black

*Each bundle made up of 4 pairs.

*Cables with 2 pairs laid up as a star quad:

Winding 1 :	a- core	blue
	b- core	red
Winding 2 :	a- core	grey
	b- core	yellow

Z : *The bundles are identified by the spirals with imprinted numbers