

JE-LIYCY...Bd Z

PVC INSULATED, INSTALLATION CABLES FOR INDUSTRIAL ELECTRONICS



APPLICATION: These screened installation cables twisted pairs (in pair form) are mainly used for industrial electronics, instrumentation, control, data engineering where low current consumptions are required and transmission of the data must be continuous where the connection of computers, information and transmission systems, the transmission of analogue and digital signals in processor-controlled equipment. Consisting of tinned copper wires as screen provides protection against external pulses. With blue sheath it is suitable for intrinsically safe systems. These cables are suitable for installation in dry and moist operating areas in buildings, above and beneath plaster as well as for permanent outdoor and wall installation on outer building walls.

CABLE DESIGN

Conductor	: Plain copper conductor, 7-strand
Insulation	: PVC compound, YI3; VDE 0207-4
Core identification	: VDE 0815 (Z)
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	: Braid of tinned or plain Cu wires, 85% cover.
Outer sheath	: PVC compound, YM1; VDE 0207-5
Sheath colour	: RAL 7032, Grey or RAL 5015, Blue

Z: The bundles are marked by means of a numbered helix.

TECHNICAL DATA

Standard	: DIN VDE 0815
Conductor resistance (loop) (20°C)	: 0,50 mm ² : 7x0,30 mm : 78,4 Ω/km
Insulation resistance	: Min. 100 MΩ.km
Mutual Capacitance (800 Hz)	: Max. 100 ¹⁾ nF/km
Capacity Unbalanced(k)	: Max. 200 ²⁾ 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: - 30 °C ~ + 70 °C Mobile: - 5 °C ~ + 50 °C
Min. bending radius	: 7,5xD

Flame retardance test : IEC 60332-1 & EN 50265-2-1

¹⁾ This value may be exceeded by 20% by cables with up to 4 pairs

²⁾ 20% of the values, at least one value up to 400 pF permitted

Cross Sections

Part-number	No. of pairs x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1116 01 002	2x2x0,50	7,5	42	80
1116 01 004	4x2x0,50	9,5	65	135
1116 01 008	8x2x0,50	11,9	115	225
1116 01 012	12x2x0,50	14,4	160	315
1116 01 016	16x2x0,50	16,4	220	420
1116 01 020	20x2x0,50	17,9	250	500
1116 01 024	24x2x0,50	19,5	310	585
1116 01 032	32x2x0,50	22,0	405	650
1116 01 040	40x2x0,50	24,5	515	770
1116 01 080	80x2x0,50	36,0	1010	1485
1116 01 100	100x2x0,50	39,0	1315	1820

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 star quad
b- core yellow

*The bundles are identified by the spirals with imprinted numbers