

JE-Y(St)Y...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, telecommunication, 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. 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, solid
 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 : Tinned Cu drain wire under the AL-PES tape
 Drain wire Ø 0,80 mm
 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) : 0,80 mm : 73,2 Ω/km (20° C)
 Insulation resistance : Min. 100 MΩ.km
 Mutual Capacitance (800 Hz) : Max. 100¹⁾ nF/km
 Capacity Unbalanced(k) : Max. 200²⁾ 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 Conductor Diameter (mm)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1117 04 002	2x2x0,80	6,0	21	58
1117 04 004	4x2x0,80	8,5	41	95
1117 04 008	8x2x0,80	11,0	82	170
1117 04 012	12x2x0,80	13,0	123	250
1117 04 016	16x2x0,80	14,5	164	310
1117 04 020	20x2x0,80	16,0	205	360
1117 04 024	24x2x0,80	16,5	245	455
1117 04 032	32x2x0,80	19,8	322	550
1117 04 040	40x2x0,80	21,8	405	675
1117 04 080	80x2x0,80	30,2	810	1300
1117 04 100	100x2x0,80	34,2	2010	1600

Core IdentificationBasic 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