

JE-Y(St)Y...Bd

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PVC insulated, overall screened, unarmoured, PVC sheathed instrumentation cable acc. to VDE 0815



Construction

1. Conductors: bare solid copper
2. Insulation: PVC
3. Cabling elements: pairs
Cabling elements assembled in bundles of 4 pairs (Bd)
Bundels assembled in concentric layers
4. Overall screening: laminated Alu/PET tape (9µm Alu/12mm PET) in contact with a tinned copper drain wire 0,5 mm² (1x0,8mm)
5. Outer sheath: PVC
Outer sheath color: Gray or blue or according to customer specification

Electrical Properties

Voltage rating (V)	225
Conductor diameter (mm)	0,8
Conductor resistance in loop @ 20°C (Ω/km)	73,2
Capacitance core/core (nF/km)	≤100 (+20% for cables up to 4 pairs)
Capacitance unbalance between pairs @ 800 Hz. (pF/100m)	≤200 (20% for measured values or min. one value may be <400)
Test voltage core/core (V _{ac})	500
Test voltage core/screen (V _{ac})	2000
Insulation resistance @ 20°C (MΩ*km)	≥100

Application conditions

Operating temperature	-30°C to +70°C
Laying temperature	-5°C to +50°C
Min. bending radius	7,5 x outer diameter

Fire behaviour

Fire propagation	IEC 60332-1
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Application

Transmission of analog and digital signals for indoor and outdoor applications.



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Number of pairs and conductor diameter mm	Thickness of the outer sheath mm	Overall diameter approx. mm	Weight of cable approx. kg/km
1 x 4 x 0,8	1,0	6,5	55
4 x 2 x 0,8	1,0	8,5	95
8 x 2 x 0,8	1,0	10,5	150
12 x 2 x 0,8	1,0	12,0	210
16 x 2 x 0,8	1,2	14,0	285
20 x 2 x 0,8	1,2	15,0	340
24 x 2 x 0,8	1,2	16,0	400
32 x 2 x 0,8	1,4	19,0	530
40 x 2 x 0,8	1,4	20,5	645
48 x 2 x 0,8	1,4	23,0	750
80 x 2 x 0,8	2,0	29,0	1300
100 x 2 x 0,8	2,0	32,0	1550