



Caledonian

INDOOR TELEPHONE CABLES

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PVC Insulated & PVC Sheathed Installation Cables to DIN VDE 0815/DIN 57815

J-YY...2X0.6 Bd

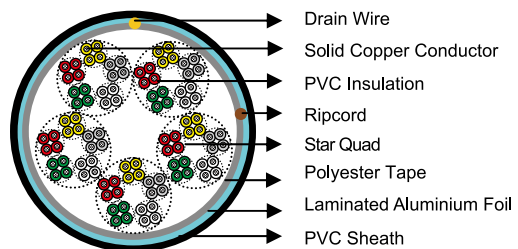
APPLICATION

The installation cables are used for telephone and signal transmission for permanent surface or concealed installation in dry and damp rooms, on or under plaster, and on external walls.



STANDARDS

- DIN VDE 0815/DIN 57815



CONSTRUCTION

- **Conductors:** Solid annealed bare copper sized 0.6mm as per VDE 0295/IEC 60228 Class 1.
- **Insulation:** PVC Y11 type to DIN VDE 0207-2.
- **Cabling Element:** Star Quads.
- **Cable Core Assembly:** Each 4 wires are stranded into a star quad, the quads are stranded to units and the units are stranded to form the core.
- **Core Wrapping:** One or more non-hygroscopic polyester tapes are helically or longitudinally laid with an overlap prior to sheathing.
- **Screen:** Laminated aluminium foil is fully enclosing the core with an overlap.
- **Sheath:** PVC YM1 type to DIN VDE 0207 part 5.
- **Ripcord:** Nylon ripcord may be placed parallel to the cores to facilitate sheath removal.
- **Drain Wire:** Tinned drain wire applied longitudinally to provide continuity of the screen.

TYPE CODES

J Installation Cable Y Polyvinyl Chloride (PVC) Bd Unit stranding.

ELECTRICAL PROPERTIES

Nominal Conductor Diameter	mm	0.6
VDE CODE		J-YY
Conductor Size	mm ²	0.283

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Maximum Conductor Resistance @20°C	Ω/km	63
Minimum Insulation Resistance @500V DC @20°C	MΩ·km	100
Maximum Mutual Capacitance @0.8KHz	nF/km	100
Maximum Capacitance Unbalance @0.8KHz		
K1 max	pF/100m	300
K9-K12 max	pF/100m	100
Maximum Loop Resistance @20°C	Ω/km	130
Maximum Average Attenuation @0.8KHz	dB/km	1.7
Maximum Working Voltage Peak Value	V	300
Nominal Insulation Thickness	mm	0.2
Nominal Insulated Conductor Diameter	mm	1.0

MECHANICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -30°C – +70°C

Temperature range during installation (mobile state): -20°C – +50°C

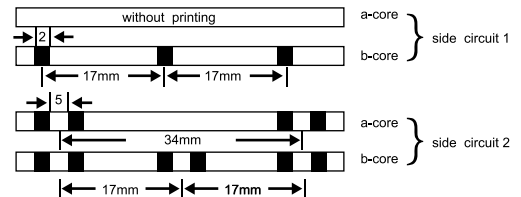
Minimum bending radius: 7.5 x Overall Diameter

COLOUR CODE

Quads

The single core is identified by black ring markings:

Side Circuit 1	a-wire	without marking
	b-wire	1 mark distance 17mm
Side Circuit 2	a-wire	2 marks distance 34mm
	b-wire	2 marks distance 17mm



Subunits

Basic colours of the wire insulation of the 5 star quads of a basic unit:

Quad 1 Red Quad 2 Green Quad 3 Grey Quad 4 Yellow Quad 5 White

The tracer units are coded with a red helix, all other units by a white binder.

DIMENSIONS AND WEIGHT

VDE CODE: J-YY...x2x 0.6 Bd

Cable Code	Number of Pairs	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.6mm Conductor, 1.0mm Insulated Wires					
TP815J-YY-Bd-2P06	2	0.2	1.0	4.5	34
TP815J-YY-Bd-4P06	4	0.2	1.0	6.5	59
TP815J-YY-Bd-6P06	6	0.2	1.0	7.0	74
TP815J-YY-Bd-10P06	10	0.2	1.0	8.5	111
TP815J-YY-Bd-16P06	16	0.2	1.0	10.0	160
TP815J-YY-Bd-20P06	20	0.2	1.0	11.0	200
TP815J-YY-Bd-24P06	24	0.2	1.0	11.5	224
TP815J-YY-Bd-30P06	30	0.2	1.2	13.0	284
TP815J-YY-Bd-40P06	40	0.2	1.2	15.0	364
TP815J-YY-Bd-50P06	50	0.2	1.2	16.5	451
TP815J-YY-Bd-60P06	60	0.2	1.4	17.5	529
TP815J-YY-Bd-80P06	80	0.2	1.4	20.3	700
TP815J-YY-Bd-100P06	100	0.2	1.4	22.3	850