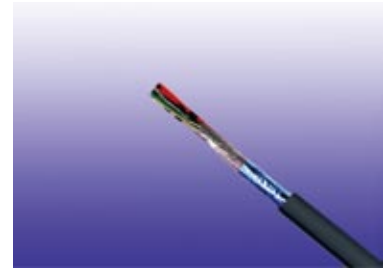


## PE Insulated & PVC/LSZH Sheathed Installation Cables to DIN VDE 0816/0815

J-2Y(St)Y...2X0.6 Still Bd J-2Y(St)H...2X0.6 Still Bd

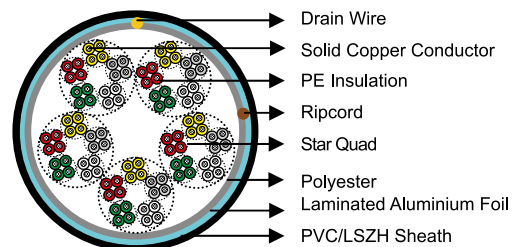
### APPLICATION

The installation cables are used for telephone, signaling and data transmission for permanent surface or concealed installation in dry and damp rooms and for outdoor applications.



### STANDARDS

- DIN VDE 0816/0815



### CONSTRUCTION

- **Conductors:** Solid annealed bare copper sized 0.6mm as per VDE 0295/IEC 60228 class 1.
- **Insulation:** Solid polyethylene 2Y12 type as per VDE 0207-2.
- **Cabling Element:** Star Quads.
- **Cable Core Assembly:** Group of four wires is stranded into a star quad, the quads are assembled into units and the units 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. LSZH sheath can be offered as option.
- **Ripcord:** Nylon ripcord may be placed parallel to the cores to facilitate sheath removal.
- **Drain Wire:** Tinned drain wire may be applied longitudinally to provide continuity of the screen.

### TYPE CODES

J-	Installation Cable
2Y	Polyethylene (PE)
H	Low Smoke & Zero Halogen
(St)	Static Shield of aluminium tape
Still	Star quad in local cables.
Bd	Unit-type stranding.



# Caledonian

## INDOOR TELEPHONE CABLES

www.caledonian-cables.co.uk www.addison-cables.com

### ELECTRICAL PROPERTIES

Nominal Conductor Diameter	mm	0.6	0.6
VDE CODE		J-2Y(St)Y	J-2Y(St)H
Conductor Size	mm <sup>2</sup>	0.283	0.283
Maximum Conductor Resistance @20°C	Ω/km	63	63
Maximum Loop Resistance @20°C	Ω/km	130	130
Minimum Insulation Resistance @500V DC	MΩ·km	5000	5000
Mutual Capacitance @0.8KHz (100% of all values) max	nF/km	52	52
(95% of all values) max		50	50
Capacitance Unbalance @0.8KHz	pF/300m		
K1 100% of values max	pF/300m	800	800
98% of values max	pF/300m	400	400
K9-12 100% of values max	pF/300m	300	300
98% of values max	pF/300m	100	100
Maximum Loop Resistance @20°C	Ω/km	130	130
Impedance (4 -16 Mhz)	Ω	100+/-15%	100+/-15%
Maximum Average Attenuation @1MHz	dB/km	35	35
Maximum Average Attenuation @4MHz	dB/km	55	55
Maximum Average Attenuation @10MHz	dB/km	73	73
Maximum Average Attenuation @16MHz	dB/km	86	86
Maximum Average Attenuation @20MHz	dB/km	95	95
Maximum Working Voltage Peak Value	V	225	225
Insulation Material		PE	PE
Sheath Material		PVC	LSZH
Nominal Insulation Thickness	mm	0.25	0.25
Nominal Insulated Conductor Diameter	mm	1.1	1.1

### 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: 10 x Overall Diameter

### COLOUR CODE

#### Quads

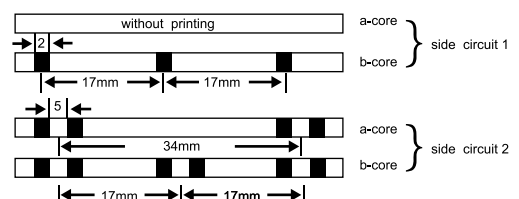
The single core is identified by black ring markings:

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-2Y(St)Y...x2x 0.6 StIII 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, 1.1mm Insulated Wire					
TP815J-2Y(St)Y-StIII-Bd-2P06	2	0.25	1.0	5.7	46
TP815J-2Y(St)Y-StIII-Bd-4P06	4	0.25	1.0	6.9	66
TP815J-2Y(St)Y-StIII-Bd-6P06	6	0.25	1.0	7.8	85
TP815J-2Y(St)Y-StIII-Bd-10P06	10	0.25	1.0	9.3	122
TP815J-2Y(St)Y-StIII-Bd-20P06	20	0.25	1.0	12.1	204
TP815J-2Y(St)Y-StIII-Bd-30P06	30	0.25	1.2	14.6	298
TP815J-2Y(St)Y-StIII-Bd-40P06	40	0.25	1.2	16.3	375
TP815J-2Y(St)Y-StIII-Bd-50P06	50	0.25	1.4	17.9	451
TP815J-2Y(St)Y-StIII-Bd-60P06	60	0.25	1.4	18.5	520
TP815J-2Y(St)Y-StIII-Bd-80P06	80	0.25	1.4	19.7	660
TP815J-2Y(St)Y-StIII-Bd-100P06	100	0.25	1.6	20.9	802

VDE CODE: J-2Y(St)H...x2x 0.6 StIII 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, 1.1mm Insulated Wire					
TP815J-2Y(St)H-StIII-Bd-2P06	2	0.25	1.0	5.7	46
TP815J-2Y(St)H-StIII-Bd-4P06	4	0.25	1.0	6.9	66
TP815J-2Y(St)H-StIII-Bd-6P06	6	0.25	1.0	7.8	85
TP815J-2Y(St)H-StIII-Bd-10P06	10	0.25	1.0	9.3	122
TP815J-2Y(St)H-StIII-Bd-20P06	20	0.25	1.0	12.1	204
TP815J-2Y(St)H-StIII-Bd-30P06	30	0.25	1.2	14.6	298
TP815J-2Y(St)H-StIII-Bd-40P06	40	0.25	1.2	16.3	375
TP815J-2Y(St)H-StIII-Bd-50P06	50	0.25	1.4	17.9	451
TP815J-2Y(St)H-StIII-Bd-60P06	60	0.25	1.4	18.5	520
TP815J-2Y(St)H-StIII-Bd-80P06	80	0.25	1.4	19.7	660
TP815J-2Y(St)H-StIII-Bd-100P06	100	0.25	1.6	20.9	802

