

J-2Y(St)(St)Y 120 Ω

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DATA TRANSMISSION CABLEOperating voltage
max 150 VTest voltage
1,5 kVTemp. range
fixed installation
from - 30°C to + 70°CTemp. range
during installation
from - 5°C to + 50°CBending radius
15xDFlame retardant
PN-EN 60332-1-2Indoor
applicationEMC
Electromagnetic
compatibility**APPLICATIONS**

J-2Y(St)(St)Y 120 Ω are multipair, pair and overall shielded cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

Cables are designed for transmission in ISDN, PCM, RS 232, RS 422, RS 423, Ethernet 10baseT 10 Mb/s, Token Ring 4/16 Mb/s systems.

Shielded pair structure substantially decreases mutual influence between signals transmitted along the cable.

The cable is protected by an overall electrostatic shield against external electric interferences and prevents emission of interferences produced in the cable.

The cables are suitable for fixed indoor installations.

CONSTRUCTION

- annealed tin-plated copper single wire round conductors of diameter 0.4 mm,
- polyethylene (PE) insulation - identification colour code according to PN-92/T-90321,
- insulated conductors twisted into pairs,
- pair electrostatic shield incorporating a plastic laminated metal foil and an annealed tinned copper single drain wire,
- shielded pairs laid-up into a cable core,
- overall electrostatic shield incorporating a plastic laminated metal foil and an annealed tinned copper single drain wire,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

J-2Y(St)(St)H 120 Ω - halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

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CHARACTERISTICS

Characteristic impedance	120 ± 15 Ω	Operating voltage	150 V
Mutual capacitance at 1 kHz	50 ± 5 nF/km	Voltage test	1500 V rms
Insulation resistance, minimum	10 GΩ·km	DC loop resistance at 20°C, maximum	290 Ω/km
Attenuation loss, [dB/100m] max - at frequency [MHz]:		Operating temperature range	
1	3.6	during operation	from -30 to +70 °C
4	6.0	during installation	from -5 to +50 °C
10	9.0	Minimum bending radius	15 x cable diameter
16	11.0	Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Reference standards	DIN VDE 815

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm	mm	kg/km	kg/km
0021 001	8 x 2 x 0,4c	10.0	30.2	107

Product No.	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm	mm	kg/km	kg/km
0021 002	12 x 2 x 0,4c	12.5	44.7	160

Other pair counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.