

LiO2YS(St)CY-O nx2x0,22c mm² 100 Ω

DATA TRANSMISSION CABLES



APPLICATIONS

LiO2YS(St)CY-O nx2x0,22c mm² cables are intended for industrial computer systems with RS-232 and RS-422 interfaces.

Low capacitance between conductors is a distinctive feature of the cables.

For proper transmission of digital and analogue signals the cable is protected by a specially designed and highly effective collective shield against external electromagnetic interferences.

The cables are designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled.

The cables are suitable for indoor installations connecting fixed and movable equipment.

CONSTRUCTION

- flexible, multiwire conductors, stranded of tin-plated copper wires (7x0.2 mm),
- foam-skin polyethylene insulation - special system of insulation colours in pairs,
- insulated conductors twisted into pairs,
- pairs laid-up into a cable core,
- collective shield, incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire under tinned copper wire braid shield of coverage bigger than 65%,
- oil resistant PVC cable sheath, black RAL 9005, other colours also available.

CHARACTERISTICS

Characteristic impedance	100 ± 15 Ω	Attenuation loss, [dB/100m] max - at frequency [MHz]:	
Mutual capacitance at 1 kHz	41 ± 3 nF/km	1	2.5
DC loop resistance at 20°C, maximum	184 Ω/km	10	6.5
Insulation resistance, minimum	200 MΩ·km	50	12.5
Operating voltage	150 V	Operating temperature range	
Voltage test	500 V rms	for fixed installation	from - 30 to + 80°C
		for movable installation	from - 5 to + 70°C
		Minimum bending radius	15 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Oil resistance	PN-EN 60811-404

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

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0079 002	2 x 2 x 0,22c	7.3	24.9	58.7

2 x 2 x 0,22c - equivalent BELDEN 8102

Other pair counts available on request.

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