

BUS O2YS(St)CY 1x2x1,0/2,6 mm**PROFIBUS PA SYMMETRICAL CABLE**Operating voltage
max 100 VTest voltage
700 VTemp. range
fixed installation
from -30°C to +70°CBending radius
10xDFlame retardant
PN-EN 60332-1-2Indoor
applicationEMC
Electromagnetic
compatibilityIncreased
oil resistance**APPLICATIONS**

BUS O2YS(St)CY 1x2x1,0/2,6 mm is cable intended for industrial PROFIBUS PA control systems.

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.

Cable outer sheath is oil-resistant.

The cables are suitable for fixed indoor installations.

CONSTRUCTION

- annealed copper single wire round conductors of diameter 1.0 mm,
- foam-skin polyethylene insulation - identification colour code: blue and orange,
- insulated conductors twisted into a pair,
- collective shield incorporating an aluminium-polyester tape under a tinned copper wire braid,
- oil resistant PVC sheath, blue RAL 5015, other colours also available.

AVAILABLE UPON REQUEST

BUS O2YS(St)CYv 1x2x1,0/2,6 mm - cable of enhanced and oil resistant PVC sheath, suitable for outdoor installations and direct earth burial.

BUS O2YS(St)CY2Y 1x2x1,0/2,6 mm - cable with additional polyethylene (PE) sheath, suitable for outdoor installations and direct earth burial.

CHARACTERISTICS

Characteristic impedance	100 ± 20 Ω	Transfer impedance at 30 MHz, maximum	50 mΩ/m
Mutual capacitance at 1 kHz, approximate	45 nF/km	DC loop resistance at 20°C, maximum	44 Ω/km
Insulation resistance, minimum	5 GΩ·km	DC shield resistance at 20°C, maximum	9.5 Ω/km
Operating voltage	100 V	Voltage test	700 V rms
Attenuation loss, maximum at 38.4 MHz	3 dB/km	Operating temperature range	from -30 to +70 °C
Attenuation loss, [dB/100m] max - at frequency [MHz]:		Minimum bending radius	10 x cable diameter
1	1.2	Cable combustibility	flame retardant
4	2.2	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
10	3.2	Oil resistance	PN-EN 60811-404
16	4.2	Reference standards	IEC 61158-2

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

Product No.	Cable type	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm	mm	kg/km	kg/km
0182 002	O2YS(St)CY	1x2x1,0/2,6	8.0	31	76.5

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		mm	mm	kg/km	kg/km
0182 004	O2YS(St)CYv	1x2x1,0/2,6	9.6	31	109

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