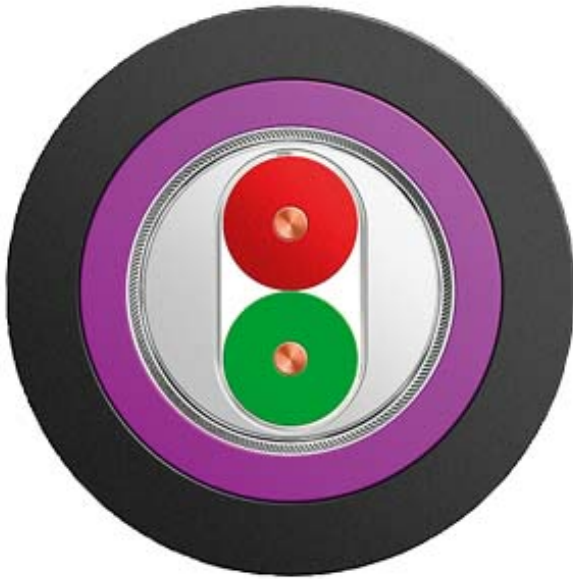


Product type designation

Product description

PROFIBUS FC Ground Cable

Special bus cable (2-core) with additional protective jacket, sold by the meter, unassembled
SIMATIC NET, PROFIBUS FC UNDERGROUND CABLE,
UNDERGROUND LAYING CABLE 2-WIRE, SHIELDED, SOLD BY
METER MAX. CONSIGNMENT: 1000M MIN. ORDERING
QUANTITY: 20 M



Suitability for use	Used for buried cables
Cable designation	02YSY (ST) CY2Y 1x2x0,64/2,55-150 SW KF 40
Electrical data	
Damping ratio per length	
<ul style="list-style-type: none"> at 9.6 kHz / maximum 	0.0025 dB/m
<ul style="list-style-type: none"> at 38.4 kHz / maximum 	0.004 dB/m
<ul style="list-style-type: none"> at 4 MHz / maximum 	0.022 dB/m
<ul style="list-style-type: none"> at 16 MHz / maximum 	0.042 dB/m
Impedance	
<ul style="list-style-type: none"> Rated value 	150 Ω
<ul style="list-style-type: none"> at 9.6 kHz 	270 Ω
<ul style="list-style-type: none"> at 38.4 kHz 	185 Ω
<ul style="list-style-type: none"> at 3 MHz ... 20 MHz 	150 Ω
Relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 9.6 kHz 	10 %
<ul style="list-style-type: none"> of the characteristic impedance at 38.4 kHz 	10 %

<ul style="list-style-type: none"> • of the characteristic impedance at 3 MHz ... 20 MHz 	10 %
Loop resistance per length / maximum	110 mΩ/m
Shield resistance per length / maximum	9.5 Ω/km
Capacity per length / at 1 kHz	28.5 pF/m
Operating voltage	
<ul style="list-style-type: none"> • RMS value 	100 V

Mechanical data

Number of electrical cores	2
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Type of electrical connection / FastConnect	Yes
Outer diameter	
<ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath • of cable sheath / Note 	0.65 mm 2.55 mm 5.4 mm 10.8 mm The cable (diameter 8.0 mm +0.4 mm) has an additional black outer cover (diameter 10.8 mm +0.5 mm) as protection against damage if laid in the ground. because of outer diameter > 8 mm: Bus connectors can only be connected after removing the outer cover.
Symmetrical tolerance of the outer diameter / of cable sheath	0.5 mm
Material	
<ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	PE PVC PE/PVC; PVC (sheath of the cable), PE (additional outer sheath)
Color	
<ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	red/green Black
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	41 mm 81 mm
Tensile load / maximum	100 N
Weight per length	117 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C

<ul style="list-style-type: none"> Note 	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
Burning behavior	inflammable
Chemical resistance <ul style="list-style-type: none"> to mineral oil to grease to water 	oil resistant according to IEC 60811-2-1 (4 hours / 70°C) Conditional resistance conditional resistance
Radiological resistance / to UV radiation	resistant / Sunlight resistant acc. to UL 444 Sec. 7.12

Product properties, functions, components / general

Product feature <ul style="list-style-type: none"> halogen-free silicon-free 	No Yes
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Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability <ul style="list-style-type: none"> CE marking RoHS conformity 	CE, FCC, IC, cULus, Ex approval only together with 6GT2801-4AB10 Yes Yes
Marine classification association <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) 	No No No No No No No

Further Information / Internet Links

Internet-Link <ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx Download Manager to website: Industry Online Support 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
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