

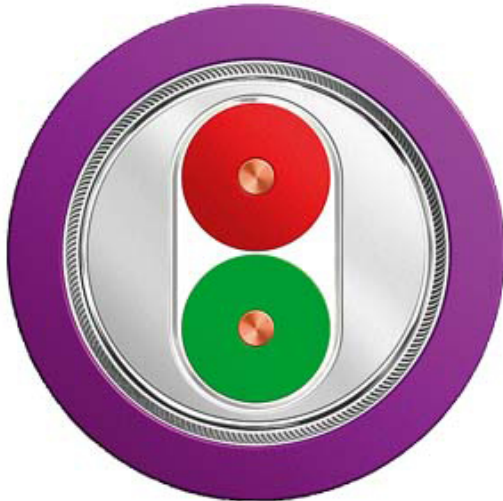
Product type designation

Product description

PROFIBUS FC FRNC Cable GP

Flame retardant, halogen-free bus cable (2-core), sold by the meter, unassembled

SIMATIC NET, PB FC FRNC CABLE GP, BUS CABLE FLAME-RETARDANT AND HALOGEN-FREE BUS CABLE WITH COPOLYMER SHEATH, FRNC SOLD BY THE METER MAX. CONSIGNMENT: 1000 M MIN. ORDERING QUANTITY: 20 M



Suitability for use	Halogen-free cable, suitable for use in buildings
Cable designation	02YSH (ST) CH 1x2x0,64/2,55-150 VI KF 25 FRNC FC
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 m Ω /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 	0.65 mm 2.55 mm 5.4 mm 8 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
Material <ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	PE FRNC FRNC
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	red / green Violet
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	60 mm 80 mm
Tensile load / maximum	100 N
Weight per length	72 kg/km

Permitted ambient conditions	
Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • Note 	-25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C electrical properties measured at 20 Cel, tests according to DIN 47250 part 4 respectively DIN VDE 0472
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C), IEC 60332-3-22 (Category A), EN 50267-2-1/2, IEC 61034
Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease • to water 	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general	
Product property <ul style="list-style-type: none"> • halogen-free 	Yes

- silicon-free

Yes

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • RoHS conformity 	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	No
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	No
<ul style="list-style-type: none"> • Germanische Lloyd (GL) 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	No

Further Information / Internet Links

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

last modified:

12.03.2015