

**Profibus FC Standard Cable GP
SP3005102230**

SIMATIC NET, PB FC STANDARD CABLE GP,
2-WIRE, SHIELDED, SPECIAL DESIGN FOR RAPID INSTALLATION
MLFB: 6XV1830-0EH10
MAKE: M/S SIEMENS

Note to Bidder:

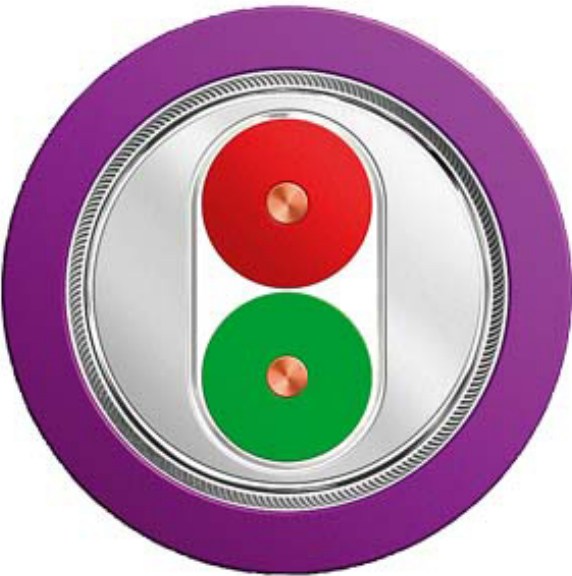
1. Reference data sheet is attached; any deviations shall be mentioned without fail.
2. Equivalent material is not acceptable as it meant for one to one replacement for existing installation.

**RAMESH
KUMAR KORRA**

Digitally signed by
RAMESH KUMAR KORRA
Date: 2024.04.13
13:55:41 +05'30'

Product type designation
Product description

PROFIBUS FC Standard Cable GP
Standard bus cable (2-core), sold by the meter, unassembled
SIMATIC NET, PB FC STANDARD CABLE GP, 2-WIRE,
SHIELDED, SPECIAL DESIGN FOR RAPID INSTALLATION, MAX.
CONSIGNMENT: 1000 M, MIN. ORDERINGQUANTITY: 20 M SOLD
BY THE METER



Suitability for use	Standard cable specially designed for fast, permanent installation
Cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
Electrical data	
Damping ratio per length	
• at 9.6 kHz / maximum	0.0025 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	0.042 dB/m
Impedance	
• Rated value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• at 3 MHz ... 20 MHz	150 Ω
Relative symmetrical tolerance	
• of the characteristic impedance at 9.6 kHz	10 %
• of the characteristic impedance at 38.4 kHz	10 %

• 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 • 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 • 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 • of the wire insulation • of the inner sheath of the cable • of cable sheath	PE PVC PVC
Color • of the insulation of data wires • of cable sheath	red/green Violet
Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	37.5 mm 75 mm
Tensile load / maximum	100 N
Weight per length	80 kg/km

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation • Note	-40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -40 ... +75 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)
Chemical resistance	

• to mineral oil • to grease • to water	oil resistant according to IEC 60811-2-1 (4 hours / 70°C)
Radiological resistance / to UV radiation	Conditional resistance conditional resistance resistant

Product properties, functions, components / general

Product feature	
• halogen-free	No
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG / CL3 / Sun Res
UL/ETL style / 600 V Rating	Yes
Certificate of suitability	
• CE marking	Yes
• UL approval	Yes
• RoHS conformity	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

last modified: 03/30/2017 

**Profibus Festoon Cable GP
SP3005102231**

SIMATIC NET, PROFIBUS FESTOON CABLE GP FOR FESTOONED CABLING,
2-WIRE, SHIELDED,
MAX. ACCELERATION: 4 M/QS,
MIN. 5 MILLION BENDING CYCLES
MLFB: 6XV1830-3GH10
MAKE: M/S SIEMENS

Note to Bidder:

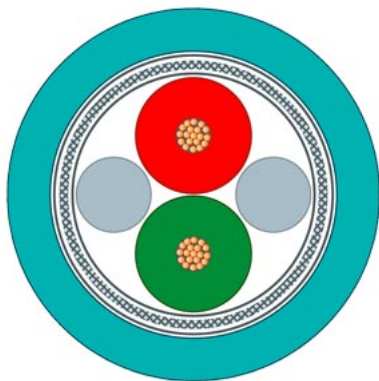
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product type designation

product description



PROFIBUS Festoon Cable GP

Flexible bus cable (2-core), sold by the meter, unassembled

PROFIBUS FESTOON Cable GP for festoon suspension, 2-core shielded max. acceleration: 4 m/QS min. 5 million bending cycles, sold by the meter, Delivery unit: max. 1000 m, minimum order quantity: 20 m .

suitability for use

Specially for festoon attachment

cable designation

02YS (ST) CY 1 x 2 x 0,65/2,56 LI petrol FR

electrical data

attenuation factor per length

• at 9.6 kHz / maximum	0.003 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 dB/m

impedance

• rated value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• at 3 MHz ... 20 MHz	150 Ω

relative symmetrical tolerance

• of the characteristic impedance at 9.6 kHz	10 %
• of the characteristic impedance at 38.4 kHz	10 %
• of the characteristic impedance at 3 MHz ... 20 MHz	10 %

loop resistance per length / maximum

133 m Ω /m

shield resistance per length / maximum

19 Ω /km

insulation resistance coefficient

16000 G Ω ·m

capacity per length / at 1 kHz

28 pF/m

operating voltage

• RMS value	80 V
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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

No

outer diameter

• of inner conductor	0.67 mm
• of the wire insulation	2.56 mm
• of the inner sheath of the cable	5.8 mm
• of cable sheath	8 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

material

• of the wire insulation	polyethylene (PE)
• of cable sheath	PVC

color

• of the insulation of data wires • of cable sheath	red/green petrol
bending radius	
• with single bend / minimum permissible • with continuous bending	30 mm 70 mm
tensile load / maximum	80 N
weight per length	64 kg/km
ambient conditions	
ambient temperature	
• during operation • during storage • during transport • during installation • note	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-3-24 (Category C)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil • to grease • to water	conditional resistance Conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free • silicon-free	No Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; CMG / PLCT / Sun Res / Oil Res
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
• EAC approval • CE marking	Yes Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (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
reference code	
• according to IEC 81346-2 • according to IEC 81346-2:2019	WG WGB
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

last modified:

10/30/2021 

**Profibus Fast-Connect stripping tool
SP3005102240**

TOOL FOR FAST STRIPPING OF THE PROFIBUS
FAST CONNECT BUS CABLE
MLFB: 6GK1905-6AA00
MAKE: M/S SIEMENS

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Product type designation

PB FastConnect Stripping Tool

PROFIBUS FastConnect stripping tool, Stripping tool for fast stripping of the PROFIBUS FastConnect bus cable



Further Information / Internet Links

Internet-Link

- to website: TIA Selection Tool
- to website: Selector SIMATIC NET SELECTION TOOL
- to the website: IWLAN
- 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/tia-selection-tool>

<http://www.siemens.com/snst>

<http://www.siemens.com/iwlan>

<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>

last modified:

05/15/2019 

**Profibus Fast-Connect Bus connector RS485
SP3005102245**

SIMATIC DP, BUS CONNECTOR FOR PROFIBUS UP TO 12 MBIT/S
90 DEGREE ANGLE CABLE OUTLET,
IPCD TECHNOLOGY FAST CONNECT,
WITH PG SOCKET
MLFB: 6ES7972-0BB52-0XA0
MAKE: M/S SIEMENS

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SIMATIC DP, Connection plug for PROFIBUS up to 12 Mbit/s 90° cable outlet, Insulation displacement method FastConnect, With PG receptacle 15.8x 59x 35.6 mm (BxHxD)



Suitability for use	For connecting PROFIBUS nodes to the PROFIBUS bus cable
Transmission rate	
Transfer rate / with PROFIBUS DP	9.6 kbit/s ... 12 Mbit/s
Interfaces	
Number of electrical connections	
• for PROFIBUS cables	2
• for network components or terminal equipment	1
Type of electrical connection	
• for PROFIBUS cables	Integrated insulation displacement contacts for 2-core PB FC-installation cables
• for network components or terminal equipment	9-pin Sub-D connector
Type of electrical connection / FastConnect	Yes
Mechanical data	
Design of terminating resistor	Integrated resistor combination that can be selected with slide switch
Material / of the enclosure	plastic
Locking mechanism design	Screw
Design, dimensions and weight	

Width	15.8 mm
Height	59 mm
Depth	35.6 mm
Net weight	10 g

Permitted ambient conditions

Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Protection class IP	IP20

Product properties, functions, components / general

Product feature	
• silicon-free	Yes
Product component	
• PG connection socket	Yes
• strain relief	Yes

Standards, specifications, approvals

Certificate of suitability	
• RoHS conformity	Yes
• UL approval	Yes
Reference code	
• acc. to DIN EN 81346-2	XF

last modified: 06/16/2019 

PC adaptor USB A2
SP3005103002

PC ADAPTER USB A2 USB-ADAPTER (USB V2.0)
FOR CONNECTING A PG/PC OR NOTEBOOK TO SIMATIC S7
MLFB: 6GK1571-0BA00-0AA0
MAKE: M/S SIEMENS

Note to Bidder:

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Date: 2024.04.13
14:16:57 +05'30'

product type designation



PC adapter USB A2

PC adapter USB A2 USB adapter (USB V2.0) for connection of a PG/PC or notebook to SIMATIC S7 via PROFIBUS or MPI contain USB cable 5 m, MPI cable 0.3 m can be used under Windows XP/Vista/ Windows 7 32/64 bit and higher.

transfer rate

transfer rate	
• at the 1st interface / according to PROFIBUS	9.6 kbit/s ... 12 Mbit/s

interfaces

number of electrical connections	
• at the 1st interface / according to PROFIBUS	1
number of interfaces / according to USB	1
type of electrical connection	
• at the 1st interface / according to PROFIBUS	9-pin Sub-D socket (RS 485)
• of the USB interface	Standard-B socket
standard for interfaces / USB 2.0	Yes

supply voltage, current consumption, power loss

type of voltage / of the supply voltage	DC
type of voltage supply / optional external power supply	No
supply voltage	
• from USB	5 V
• note	Supply direct from USB
relative symmetrical tolerance / at DC	
• at 5 V	5 %
consumed current	
• from USB	0.2 A
power loss [W]	1 W

ambient conditions

ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity / at 30 °C / during operation / maximum	95 %
protection class IP	IP20

design, dimensions and weights

module format	USB V2.0 adapter
width	58 mm
height	26 mm
depth	105 mm
net weight	0.365 kg
fastening method / 35 mm top hat DIN rail mounting	No

product features, product functions, product components / general

number of plug-in cards of same design / plug-in / per PC station	1
number of units / note	-

product functions / diagnostics	
product function	
port diagnostics	Yes
standards, specifications, approvals	
standard	
- for EMC - for safety / from CSA and UL - for emitted interference - for interference immunity	2004/108/EC cULus, UL 60950-1, CSA22.2 EN 61000-6-3, EN 61000-6-4 EN 61000-6-1, EN 61000-6-2
certificate of suitability	
- CE marking - C-Tick	Yes Yes
further information / internet-Links	
Internet-Link	
- 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/simatic-net http://www.siemens.com/industrial-controls/mall http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

last modified:

7/1/2021 