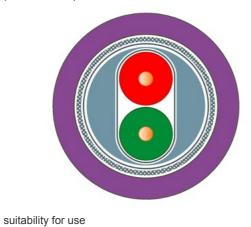
## **SIEMENS**

Data sheet 6XV1830-0EN50

## product type designation

product description



## **PROFIBUS FC Standard Cable GP**

Standard bus cable (2 wires), preferred length, not assembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 50 m.

Standard cable specially designed for fast, permanent installation

suitability for use	Standard cable specially designed for rast, permanent installation
cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
wire length	50 m
electrical data	
attenuation factor 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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	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	
<ul> <li>RMS value</li> </ul>	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> <li>of inner conductor</li> </ul>	0.65 mm
<ul> <li>of the wire insulation</li> </ul>	2.55 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC

color  of the insulation of data wires  of cable sheath  violet  bending radius  with sligie bend / minimum permissible  with sligie bend / minimum permissible  with multiple bends / minimum permissible  75 mm  75 mm  75 mm  75 kg/km  mathient conditions  ambient temperature  during operation  during storage  during stor	of cable sheath	PVC
of the insulation of data wires     of cable sheath     vide to cable sheath     vide with single bend / minimum permissible     owth multiple bends / minimum permissible     vide multiple permissible     vide multiple permission     vide multiple product features     vide multiple product features     vide multiple product features     vide multiple permission     vide		1 10
or of cable sheath  bending addus  with single bend / minimum permissible  with multiple bends / minimum permissible  with multiple bends / minimum permissible  100 N  weight per length  78 kg/km  mabient conditions  ambient temperature  of uring operation  of uring storage  of uring fransport  of uring installation  inote  Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 fire behavior  class of burning behaviour / according to EN 13501-6  chemical resistance  it to mineral oil  of grease  of to mineral oil  of grease  of to water  and loogical resistance / to UV radiation  product features, product functions, product components / general  pro		rod/green
bending radius  with single bend / minimum permissible with multiple bends / minimum permissible 75 mm 100 N weight per length 78 kg/km  minimum temperature oduring operation oduring storage 40 +75 °C 60		
with single bends / minimum permissible		VIOIE
ensile load / maximum  tensile load / maximum  movegit per length  78 kg/km  mibient conditions  ambient emperature  during operation  during storage  during installation  ende  ender else and		27 E mm
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weight per length ambient conditions ambient temperature • during operation • during operation • during operation • during storage • during installation • note • during installation • note • during installation • note • detectrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472  fire behavior  fire behavior  class of burning behaviour / according to EN 13501-8 chemical resistance • to mineral oil • to grease • to water • silicon-free • silicon-free • silicon-free • silicon-free • halogen-free • ha	· · · · · · · · · · · · · · · · · · ·	
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part 4 respectively DIN VDE 0472 fire behavior  class of burning behaviour / according to EN 13501-8     chemical resistance	<ul><li>during installation</li></ul>	
class of burning behaviour / according to EN 13501-6 chemical resistance  • to mineral oil • to grease • to water  radiological resistance / to UV radiation  resistant  product features, product functions, product components / general  product features • halogen-free • halogen-free • silicon-free • silicon-free  * Silicon-free • Silicon-free  * LUETL isting / 300 V Rating  UL/ETL style / 600 V Rating  UL/ETL style / 600 V Rating  UL/ETL style / 600 V Rating  UL approval • EA Capproval • CE marking • UL approval • CE marking • RoHS conformity  American Bureau of Shipping Europe Ltd. (ABS) • French marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Polski Rejests Tolkyoki (NK) • Polski Rejests Statkow (PRS)  reference cod • according to IEC 81346-2 • to website: Industrial communication • to website: Industry Mall • to website: Industry size and the product on interverse.  Idea (CSA FTT 4)  Eaa   Conditional resistance resistant resistant conditions resistant resistant conditions resistant resistant resistance resistant	• note	
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o water radiological resistance / to UV radiation resistant  product features, product functions, product components / general  product feature     o halogen-free	• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
radiological resistance / to UV radiation resistant  product feature  • halogen-free  • Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  • Certificate of suitability  • EAC approval  • CE marking  • UL approval  • RoHS conformity  Yes  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • No  • Alogisk Regiestr of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  reference code  • according to IEC 81346-2  • according to IEC 81346-2:2019  further information / internet-Links  Internet-Link  • to web page: selection aid TIA Selection Tool  • to website: Industrial communication  • to website: Industrial communication  • to website: Industrial communication  • to website: Information and Download Center	• to grease	Conditional resistance
product feature		conditional resistance
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product feature		/ general
halogen-free     silicon-free     Standards, specifications, approvals  UL/ETL listing / 300 V Rating     Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating     Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability     EAC approval     CE marking     Ves     UL approval     RoHS conformity  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)     No     Nippon Kaiji Kyokai (NK)     Polski Rejestr Statkow (PRS)  reference code     according to IEC 81346-2     according to IEC 81346-2:2019  further information / internet-Links  Internet-Link  Internet-Link  Internet-Link  Internet-Link website: Industrial communication     to website: Industry Mall     to to website: Information and Download Center  Internet-Simple (Link)  Internet-Link http://www.siemens.com/industry/infocenter		
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Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS)  reference code according to IEC 81346-2 according to IEC 81346-2:2019  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  No No No No No No Http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com/ http://www.siemens.com/industry/infocenter		
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<ul> <li>Nippon Kaiji Kyokai (NK)         <ul> <li>Polski Rejestr Statkow (PRS)</li> </ul> </li> <li>reference code         <ul> <li>according to IEC 81346-2</li> <li>according to IEC 81346-2:2019</li> </ul> </li> <li>further information / internet-Links</li> <li>Internet-Link         <ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>http://www.siemens.com/industry/infocenter</li> </ul> </li> </ul>		
● Polski Rejestr Statkow (PRS)  reference code ● according to IEC 81346-2 ● according to IEC 81346-2:2019  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  No  No  No  No  Http://www.siemens.com/siaselection-tool  http://www.siemens.com/tia-selection-tool  http://www.siemens.com/simatic-net  https://mall.industry.siemens.com  http://www.siemens.com/industry/infocenter		
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	• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Selection guide for cables and <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>	<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
connectors		https://sie.ag/2QdlxcP
• to website: Image database <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>	• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	_	http://www.siemens.com/cax
• to website: Industry Online Support  https://support.industry.siemens.com		https://support.industry.siemens.com
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