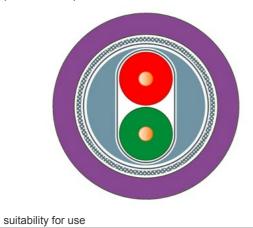
## **SIEMENS**

Data sheet 6XV1830-0ET50

## 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 500  $\mbox{m}$ 

Standard cable specially designed for fast, permanent installation

cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
wire length	500 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)
	PVC

color  of the insulation of data wires of cable sheath  violet  bending radius  with single bend / minimum permissible with single bend / minimum permissible with single bend / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible  of minimum permissible  75 mm  75 mm  75 mm  75 mm  75 kg/km  marbient conditions  ambient conditions  ambient conditions  ambient conditions  ambient situations  a	of cable sheath	PVC
e of cable sheath  of cable sheath  of cable sheath  violet  bending radius  • with single bend / minimum permissible  rensile load / maximum  100 N  weight per length  78 kg/km  mibient conditions  ambient temperature  • during peration  • during peration  • during peration  • during intersport  • during perature  • labavior  • during intersport  • during perature  • labavior  • during intersport  • during perature  • labavior  • during perature  • labavior  • during intersport  • during intersport  • during intersport  • during perature  • labavior  • during perature  • labavior  • during intersport  • during perature  • labavior  • during intersport  • during perature  • labavior  • during intersport  • during intersport  • during perature  • labavior  • during intersport  • during perature  • labavior  • during intersport  • during perature  • during perature  • during perature  • labavior  • during intersport  • during perature  • during perature  • during perature  • during intersport  •		1 10
• of cable sheath  bending radius  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  * with multiple were a was an		red/green
Dending radius   With single bend / minimum permissible   with multiple bends / minimum permissible   75 mm   100 N   Weight per length   78 kg/km   78		
with single bend / minimum permissible		VIOLET
with multiple bends / minimum permissible tensile load / maximum     weight per length 78 kg/km      smblent conditions     ambient temperature		27 E mm
tensile load / maximum weight per length weight per length 36 kg/km samblent conditions samblent temperature • during poperation • during parage • during storage • during installation • note • during storage • during installation • note • Electrical properties measured at 20 °C, tests seconding to DIN 47250 part 4 respectively DIN VDE 0472 flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSAF T4)  class of burning behaviour / according to EN 13501-6 • Cenerical resistance • to mineral oil • to grease • to water • to mineral oil • to grease • to water • to water • conditional resistance resistant  conditional resistance resistant product features, product functions, product components / genoral product features, product functions, product components / genoral product features, product functions, product components / genoral  product features, product functions, approvals  ULETL listing / 300 V Rating  ULETL style / 600 V Rating  ULETL style / 600 V Rating  ULETL style / 600 V Rating  Ves • CE marking • Yes • CETL, us, CMG / (ETL, us CL3 / Sun Res  ULETL style / 600 V Rating  Ves • CRUSS AMM 21694 AWM I A/B 60°C 600V FT2  certificate of substability • EAC approval • CE marking • Yes • CE marking • Y	· ·	
weight per length ambient conditions ambient temperature  • during operation • during storage • during installation • note • conditions  fire behavior  fire behavior  diams resistant according to EN 13501-6 chemical resistance • to mineral oil • to water • to water  radiological resistance / to UV radiation  product features, product functions, product components / general  product feature, • halogen-free •		
ambient conditions  ambient temperature  • during storage • during installation • note    Fire behavior   40 +75 °C     Electrical properties measured at 20 °C, tests according to DIN 47250     part 4 respectively DIN VDE 0472     flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)     class of burning behaviour / according to EN 13501-6     chemical resistance • to mineral oil   0 il resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)     class of burning behaviour / according to EN 13501-6     chemical resistance • to mineral oil   0 il resistant according to IEC 60811-2-1 (4 h / 70°C)     conditional resistance   10 Ur radiation   10 Ur radiation     to grease   10 Ur radiation   10 Ur radiation   10 Ur radiation   10 Ur radiation     to grease   10 Ur radiation     to grease   10 Ur radiation   10		
ambient temperature  • during operation • during storage • during transport • during installation • note  fire behavior  fire behavior  fire behavior  dass of burning behaviour / according to EN 13501-6  chemical resistance • to mineral oil • to ogrease • to water radiological resistance / to UV radiation  product features, product functions, product components / general  product feature   No • silicon-free • Standards, specifications, approvals  UL/ETL style / 600 V Rating  UL/ETL style / 600 V Rating  Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating  Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL-ETL style / 600 V Rating  Ves; c(ETL)us AWM 1/89 60°C 600V FT2  cettificate of suitability • EAC approval • CE marking • Yes • CE marking • Yes • CE marking • Yes • CH marking • Ves • CH marking • Ves • CH marking • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • De No Nosali (Ryoka) (MK) • Oethor Morsali (Ryoka) (MK) • Oethor Morsali (Ryoka) (MK) • Polski Rejester of Shipping (LRS) • No • No • Oethor Morsali (Ryoka) (MK) • Polski Rejester Stalkow (PRS)  reference code • a.co. to IEC 81346-2 • a.cocording to IEC 60811-2-1 (ABS) • Internet-Link • to website: Industrial communication • to website: Information and Download Center • to webs		78 kg/km
e during operation e during storage e during installation e during installation e note e Electrical 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 13501-6 class of burning behaviour / according to EN 13501-6 class of burning behaviour / according to EN 13501-6 e to mineral oil e to grease e to water radiological resistance / to UV radiation product feature halogen-free halogen-free e silation-free No e silation-free No ULFTI. Isting / 300 V Rating ULFTI. Isting / 300 V Rating ULFTI. Isting / 300 V Rating Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res ULFTI. Isting / 300 V Rating Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  ULFTI. Isting approval e EAC approval e EAC approval Product feature  A President of suitability e EAC approval e EAC approval President of suitability e EAC approval e CE marking Ves UL approval e CE marking Ves e CH marking Ves e CH marking Ves e CH marking Ves e CH marking e Los approval e CE marking e Los approval e CE marking Ves e CH marking e Los approval e CE marking e Los approval e CE Radiation society (BV) No e Det Norske Veritas (DNY) No e Germanische Lloyd (CL) e Loyds Register of Shipping Europe Ltd. (ABS) e French marine classification society (BV) No e Cermanische Lloyd (CL) e Loyds Register of Shipping (LRS) e No e Polski Rejestr Statkow (PRS) reference code a cc. to IEC 81346-2 e according to IEC 80314-2-2019 WG  Further information / internet-Links Internet-Link e to website: Industrial communication		
during storage     during installation     during installation     enote      during installation     enote      enote      interest the behavior  Class of burning behaviour / according to EN 13501-6  chemical resistance     to mineral oil     e to grease     to mineral oil     e to grease     e to mineral oil     e to grease     e to mineral oil     e to grease     e silicon-free     sandards, specifications, approvals  ULETL isting / 300 V Rating  ULETL style / 600 V Rating     certificate of suitability     e EAC approval     eCE marking     e UL approval     eCE marking     e UL approval     eVes	•	
during transport     during installation     ende     ende     ende     ende     ellectrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472  fire behavior  fire behavior  fire behavior  class of burning behaviour / according to EN 13501-6  chemical resistance     e to mineral oil     eto grease     e to water  radiological resistance / to UV radiation     roduct features, product functions, product components / general  product feature     e halogen-free     e silicon-free  standards, specifications, approvals  ULETL isting / 300 V Rating  certificate of suitability     eEAC approval     eCE marking     eUL approval     eCE marking     eUL approval     eCE marking     eUL approval     eCE marking     eUL approval     eCE marking     eVes     eFrench marine classification society (BV)     ePrench marine classification society (BV)     ePrench marine classification society (BV)     e Gemanische Lloyd (GL)     e Lloyds Register of Shipping Europe Ltd. (ABS)     e Perlos Register of Shipping (LRS)     e No     elicon-free No     emainsche Lloyd (GL)     e Loyds Register of Shipping (LRS)     e No     elicon-free No     emainsche Lloyd (GL)     e Loyds Register of Shipping (LRS)     e No     elicon-free No     emainsche Lloyd (GL)     e Loyds Register of Shipping (LRS)     e No     elicon-free No     emainsche Lloyd (GL)     e Loyds Register of Shipping (LRS)     e No     elicon-free No     emainsche Lloyd (GL)     e Loyds Register of Shipping (LRS)     elicon-free No     emainsche Lloyd (GL)     e Lowds Register of Shipping (LRS)     elicon-free No     emainsche Lloyd (GL)		
oduring installation     oncte		
e note    part 4 respectively DIN VDE 0472   fire behavior		
fire behavior  class of burning behaviour / according to EN 13501-6     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  radiological resistance / to UV radiation  resistant  product features, product functions, product components / general  product features, product functions, product components / general  product feature • halogen-free • halogen-free • halogen-free • halogen-free • halogen-free • Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating  Ves; cRUUs AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability • EAC approval • CE marking • Ves • CE marking • Ves • RoHS conformity  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Cermanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • No • Polski Rejest Statkow (PRS)  reference code • acc, to IEC 81346-2; 2019  further information / Internet-Links  Internet-Link • to website: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and	• note	
chemical resistance  • to mineral oil  • to grease  • to water  radiological resistance / to UV radiation  resistant  product features, product functions, product components / general  product feature  • halogen-free  • halogen-free  • silicon-free  • silicon-free  • silicon-free  • Ves  Standards, specifications, approvals  UL/ETL isting / 300 V Rating  UL/ETL isting / 300 V Rating  Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating  Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability  • EAC approval  • CE marking  • 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)  • Nippon Kajii Kyokai (NK)  • Polski Rejestr Statkow (PRS)  reference code  • acc. to IEC 81346-2  • according to IEC 81346-2  • according to IEC 81346-2  • according to IEC 81346-2:2019  further information / internet-Links  Internet-Link  Internet-Lin	fire behavior	
• to mineral oil • to grease • to water radiological resistance / to UV radiation product features, product functions, product components / general product feature • halogen-free • silicon-free  * standards, specifications, approvals  UL/ETL Ilsting / 300 V Rating UL/ETL Ilsting / 300 V Rating Ves; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating Ves; cRUus AWM 21694 AWM I AVB 60°C 600V FT2  certificate of suitability • EAC approval • CE marking • UL approval • RoHS conformity  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNY) • Oet marking (Lorske Veritas (DNY) • Det Norske Veritas (DNY) • Polski Rejestr Statkow (PRS) No • Polski Rejestr Statkow (PRS)  reference code • acc. to IEC 81346-2 • according to IEC 81346-2:2019  thip://www.siemens.com/tia-selection-lool http://www.siemens.com/industry/infocenter • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and	class of burning behaviour / according to EN 13501-6	Eca
• to grease • to water  radiological resistance / to UV radiation  product features, product functions, product components / general  product feature • halogen-free • halogen-free • silicon-free • silicon-free • silicon-free  Standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL listing / 300 V Rating  Yes; c(ETL)us, CMG / (ETL)us CL3 / Sun Res  UL/ETL style / 600 V Rating  Ves; cRUus AVWI 21694 AWWI 1 AVB 60°C 600V FT2  certificate of suitability • EAC approval • CE marking • UL approval • RoHS conformity • RoHS conformity • Pes  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • No • Polski Rejestr of Shipping (LRS) • Nippon Kajii Kyokai (NK) • Polski Rejestr Statkow (PRS)  reference code • acc. to IEC 81346-2 • according to IEC 81346-2:2019  further information / internet-Links  Internet-Link • to website: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Information and Download Center • to website: Selection guide for cables and  **Total Resistance **Conditional resistance **resistant**  No  Yes:  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us CL3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Cl3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Cl3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Cl3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Cl3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Cl3 / Sun Res  Yes: (ETL)us, CMG / (ETL)us Clasty Sun Res  Yes: (ETL)us, CMG / (ETL)us Clasty Sun Res  Yes: (ETL)us, CMG / (ETL)us Clasty S	chemical resistance	
• to water radiological resistance / to UV radiation resistant  product features, product functions, product components / general  product feature • halogen-free • halogen-free • silicon-free • silicon-free • No • silicon-free • Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  Yes; 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 • UL approval • RoHS conformity  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS)  reference code • acc. 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: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and  titps://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.infocenter  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com  https://www.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industry.siemens.com/industr	• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
radiological resistance / to UV radiation resistant  product features  • halogen-free  • silicon-free  • Yes  **Standards, specifications, approvals  UL/ETL listing / 300 V Rating  Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability  • EAC approval  • EAC approval  • CE marking  • UL approval  • CE marking  • UL approval  • 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)  • Cermanische Lloyd (GL)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  reference code  • acc. to IEC 81346-2  • according to IEC 81346-2:2019  **WG**  **Internet-Link**  Internet-Link**  Internet-Link*  Internet-Link  • to website: Industrial communication  • to website: Industry Mall  • to website: Industry Mall  • to website: Industry Mall  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter  • to website: Selection guide for cables and  **Intp://www.siemens.com/industry/infocenter	• to grease	Conditional resistance
product feature	-	conditional resistance
product feature	radiological resistance / to UV radiation	resistant
product feature  • halogen-free • silicon-free • silicon-free  • sundards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  UL/ETL style / 600 V Rating  • EAC approval • CE marking • UL approval • CE marking • Ves • 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 • acc. to IEC 81346-2: 2019  further information / internet-Links  Internet-Link • to website: Industrial communication • to website: Industrial and Download Center • to website: Selection guide for cables and  https://www.siemens.com/industry/infocenter • to website: Selection guide for cables and  https://www.siemens.com/industry/infocenter • to website: Selection guide for cables and  https://sie.aq/2/QdxcP		/ 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  Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability  EAC approval  CE marking  UL approval  RoHS conformity  Yes  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  acc. to IEC 81346-2  according to IEC 81346-2:2019  WG  further information / internet-Links  Internet-Link  to web page: selection aid TIA Selection Tool  to website: Industrial communication  http://www.siemens.com/tia-selection-tool  http://www.siemens.com/simatic-net  https://www.siemens.com/simatic-net  https://www.siemens.com/industry/infocenter  https://www.siemens.com/industry/infocenter  https://www.siemens.com/industry/infocenter  https://www.siemens.com/industry/infocenter  https://www.siemens.com/industry/infocenter  https://www.siemens.com/industry/infocenter		
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UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of suitability  EAC approval  CE marking  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  No  Polski Rejestr Statkow (PRS)  reference code  acc. to IEC 81346-2  according to IEC 81346-2:2019  further information / internet-Links  Internet-Link  to website: Industrial communication  to website: Industrial communication  to website: Information and Download Center  to website: Selection guide for cables and		
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