SIEMENS

Data sheet

6XV1870-8GH50

product type designation product description

IE Connecting Cable M12-90/M12-90

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4-pin M12 connectors (D-coded, 90° cable outlet)

IE Connecting Cable, M12-90/M12-90 pre-assembled, IE FC Trailing Cable GP, with 2 M12 connectors (D-coded) Length 5.0 m.



| • | |
|---|---|
| suitability for use | For connecting Industrial Ethernet stations (e.g. SIMATIC ET200 and SCALANCE XP-200) in IP 65/67 degree of protection |
| cable designation | 2YY (ST) CY 2x2x0,75/1,5-100 LI GN |
| wire length | 5 m |
| electrical data | |
| number of electrical connections | 2 |
| attenuation factor per length | |
| • at 10 MHz / maximum | 0.063 dB/m |
| ● at 100 MHz / maximum | 0.213 dB/m |
| impedance | |
| • at 1 MHz 100 MHz | 100 Ω |
| relative symmetrical tolerance | |
| • of the characteristic impedance at 1 MHz 100 MHz | 5 % |
| near-end crosstalk per length | |
| • at 1 MHz 100 MHz | 0.5 dB/m |
| transfer impedance per length / at 10 MHz | 20 mΩ/m |
| loop resistance per length / maximum | 120 mΩ/m |
| operating voltage | |
| RMS value | 80 V |
| NVP value in percent | 66 % |
| mechanical data | |
| number of electrical cores | 4 |
| design of the shield | Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires |
| core diameter | |
| of AWG22 insulated conductor | 0.75 mm |
| outer diameter | |
| of inner conductor | 0.75 mm |
| of the wire insulation | 1.5 mm |
| of the inner sheath of the cable | 3.9 mm |
| of cable sheath | 6.5 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| material | |
| of the wire insulation | polyethylene (PE) |
| of the inner sheath of the cable | PVC |
| | |

| • Or claube stream PVC • of the insulation of data wires • with evaluation of data wires • with evaluation of data wires • of the insulation of data wires • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with optimus bending cycles • 3000000; Drag phan suitable for 3 million bending cycles at a bending radius of 100 mm, a speed of 4 mis* and an acceleration of 4 mis* • during streage • -25 +75 °C • during streage • -26 +75 °C • ouring installation • -10 +00 °C | • of cable shoath | PVC |
|--|--|--|
| | of cable sheath | |
| | | white/vollow/hlue/grange |
| bending radius 2.5 mm • with single bend / minimum permissible 3.2 mm • with nulliple bends / minimum permissible 49 mm • with continuous bending 3000000, Drag chain suitable for 3 million bending cycles at a bending malus of 100 mm, speed of 4 mis and an acceleration of 4 mis ² tensile load / maximum 96 kg/km weight per length 98 kg/km amblent conditions | | , , |
| | | green |
| with multiple bends/ minimum permissible 49 mm with multiple bends/ minimum permissible 40 mm 100 mm mumber of bending cycles antibion portex antibion of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s' tensile bad / maximum 150 N weight per length antibion temperature antibion temperature antibion temperature antibion temperature antibion temperature antibion temperature adving storage -25+75 °C +75 °C | 5 | |
| • with continuous bending 100 mm number of bending cycles 9000000; Drog chein subble for 3 million bending cycles at a bending radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s* firstle load / maximum 150 N weight per length 68 kg/km ambient temperature -25+75 °C • during storage -25+75 °C • during transport -26+75 °C • during transport -27+60 °C • during transport -27+60 °C • during transport <t< td=""><td></td><td></td></t<> | | |
| number of bending cycles 2000000: Drag chain suitable for 3 million bending cycles at a Bending related of 4 m/s and an acceleration of 4 m/s ² tersite bad / maximum 150 N weight per length 68 kg/km ambient conditions 88 kg/km ambient conditions 150 N ambient conditions 25 +75 °C - during storage -25 +75 °C - during installation -26 +75 °C - during installation -26 +75 °C - during installation -27 +75 °C - during installation -26 +75 °C - during installation -27 +75 °C - during installation -28 +75 °C - during installation -28 +75 °C - during installatinon -28 +75 °C | | |
| radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s ⁴ realies load / maximum 150 N weight per length ambient conditions ambient condi | | |
| weight per length 68 kg/km ambient conditions ambient emperature • during operation -25 +75 °C • during storage -25 +75 °C • during issolation -25 +75 °C • during issolation -25 +75 °C • during installation -25 +75 °C • during installation -25 +75 °C • during installation -26 +75 °C • during installation -26 +75 °C • during installation -26 +75 °C • to mineral off Conditional resistance • to grease Conditional resistance radiological resistance // resistance resistant product feature No • halogen-free No • silicon-free Yes cettrate of subability Yes • LUETE Listing / 300 V Rating Yes ULETE Listing / 400 V Rating Yes • Eacd approval Yes • Candards, specifications approvals Ves ULETE Listing / 400 V Rating Yes • Eacd approval Yes <td>number of bending cycles</td> <td></td> | number of bending cycles | |
| ambient conditions -25 +75 °C • during storage -25 +75 °C • during inspant -25 +75 °C • during installation -25 +75 °C • note -25 +75 °C • ouring installation -25 +75 °C • ouring installation -25 +75 °C • ouring installation -26 +75 °C • ouring installation -27 +76 °C • ouring installation -27 +76 °C • ouring installation -27 +76 °C • ouring installation -28 +76 °C • ouring installatinstexperiments -28 +76 °C< | tensile load / maximum | 150 N |
| ambient temperature -25 +75 °C • during peration -25 +75 °C • during strage -25 +75 °C • during installation -10 +60 °C • uning installation -10 +60 °C • note Electrical properties measured at 20 °C, tests according to DIN VDE • or metal of -00 mineral of • to mineral of conditional resistance • to grease conditional resistance radiological resistance, isogeneral conditional resistance • to grease conditional resistance radiological resistance, isogeneral product features, product functions, product components / general product features, product functions, product components / general product features, product functions, approvats ULFETL isting / 300 V Rating Yes: cfETL us. CMG FT4 / (ETL us PLTC / Sun Res / OIL RES ULFETL isting / 300 V Rating Yes: cfETL us. CMG FT4 / (ETL us PLTC / Sun Res / OIL RES ULFETL style / 600 V Rating Yes cettraction society (BV) Yes etandards specification as colling Caste Marrie classification association | weight per length | 68 kg/km |
| | ambient conditions | |
| | ambient temperature | |
| during transport 425 +75 °C 4.uring installation 425 +75 °C 4.uring installation 425 +75 °C 4.uring installation 40 °C Electrical properties measured at 20 °C, tests according to DIN VDE 4472 free behavior for mineral oil for grease Conditional resistance for officinal resistance for officin | during operation | -25 +75 °C |
| | during storage | -25 +75 °C |
| | | -25 +75 °C |
| • note Electrical properties measured at 20 °C, tests according to DIN VDE free behavior frame resistant according to UL 1885 (CSA FT 4) chemical resistance conditional resistance • to grease Conditional resistance readiogical resistance / to UV radiation resistant protection class IP IP65, IP67 product features, product functions, product components / general product features, incomponents / general product features, incomponents / general No e islagen-free No e islagen-free Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 800 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES | | -10 +60 °C |
| 0472 fire behavior is or mineral oil is or mineral oil is or grease radiological resistance radiological resistance / to UV radiation product features, product functions, product components / general product feature islagen-free islandards, specifications, approvals ULFET_sity / 600 V Rating VERT_Listing / 300 V Rating VER_Sity / 600 V Rating Vers. c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFET_sity / 600 V Rating Vers. c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFET_sity / 600 V Rating Vers. c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFET_sity / 600 V Rating Cernarking Yes etandard for structured cabling Marine classification association errench marine classification society (BV) No etandards register of Shipping Europe Ltd. (ABS) No etandards for structured cabling Marine classification association etandards for structured cabling No | - | |
| chemical resistance conditional resistance • to mineral oil conditional resistance • to grease Conditional resistance radiological resistance / to UV radiation resistant product features, product functions, product components / general product feature • halogen-free No • eilicon-free No • eilicon-free Yes • CE marking Yes: c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFETL sity / 600 V Rating Yes: c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFETL sity / 600 V Rating Yes: c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFETL sity / 600 V Rating Yes: c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFETL sity / 600 V Rating Yes: c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULFETL sity / 600 V Rating Yes • EAC approval Yes • EAC approval Yes • Camarking Yes • Cate marking Yes • Anerican Bureau of Shipping Europe Ltd. (ABS) No • Fench marine classification society (BV) No • Edw Register of Shipping (LRS) No • Loyds Register of Shipping (L | | |
| • to mineral oil conditional resistance • to grease Conditional resistance radiological resistance / to UV radiation resistant product features, product functions, product components / general IP65, IP67 product features, product functions, product components / general IP65, IP67 product feature No • alidogen-free No • alidogen-free Yes standards, specifications, approvals ULETL isting / 200 V Rating ULETL isting / 200 V Rating Yes; cRTL/us, CMG FT4 / (ETL/us PLTC / Sun Res / OIL RES ULETL isting / 200 V Rating Yes; cRTL/us, CMG FT4 / (ETL/us PLTC / Sun Res / OIL RES ULETL isting / 200 V Rating Yes; cRTL as Res / OIL RES ULETL isting / 200 V Rating Yes; cRTL as Res / OIL RES ULETL astrice is autability Yes • EAC approval Yes • CE marking Yes • Terench marine classification association No • American Bureau of Shipping Europe Ltd. (ABS) No • French marine classification societly (BV) No • Det Norke Ventas (DNV) No • Cerromation / Tito Res / 2019 No • Iloyds Register of Shipping (LRS) No • Intermet-Link Intermet-Link Intermet-Link Intermet-Link | fire behavior | flame resistant according to UL 1685 (CSA FT 4) |
| • to mineral oil conditional resistance • to grease Conditional resistance radiological resistance / to UV radiation resistant product features, product functions, product components / general IP65, IP67 product features, product functions, product components / general IP65, IP67 product feature No • alidogen-free No • alidogen-free Yes standards, specifications, approvals ULETL isting / 200 V Rating ULETL isting / 200 V Rating Yes; cRTLus, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES ULETL isting / 200 V Rating Yes; cRUus AVM 1 A/B 60°C 600V FT2 certificate of sultability Yes • EAC approval Yes • CE marking Yes • RoHS conformity Yes • Earch matrice classification association No • American Bureau of Shipping Europe Ltd. (ABS) No • French matrice classification sociatly (BV) No • Our borske Ventas (DNV) No • Our borske Ventas (DNV) No • Cerromation / Theoremation / Theo | chemical resistance | |
| • to gresse Conditional resistance radiological resistance / to UV radiation resistant protection class IP IP65, IP67 product features, product functions, product components / general IP65, IP67 product features No • halogen-free No • silicon-free Yes standards, specifications, approvals Yes; cRTL/us, CMG FT4 / (ETL/us PLTC / Sun Res / OIL RES UL/ETL Istig / 300 V Rating Yes; cRTL/us, CMG FT4 / (ETL/us PLTC / Sun Res / OIL RES UL/ETL style / 600 V Rating Yes; cRTL/us, CMG FT4 / (ETL/us PLTC / Sun Res / OIL RES UL/ETL style / 600 V Rating Yes; cRTL style / 600 V Rating certificate of suitability Yes • CE marking Yes catandard for structured cabling CatSe Marine classification association No • American Bureau of Shipping Europe Ltd. (ABS) No • Det Norske Veritas (DNV) No • Det Norske Veritas (DNV) No • Registr of Shipping (LRS) No • Registr of Shipping (LRS) No • Polski Registr of Shipping (LRS) No | | conditional resistance |
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| • halogen-free No • silicon-free Yes standards, specifications, approvals | | |
| • silicon-free Yes standards, specifications, approvals ULETL listing / 300 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 600 V Rating Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 certificate of suitability Yes • EAC approval Yes • CE marking Yes • RoHS conformity Yes standard for structured cabling Cat5e Marine classification association American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (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 reference code according to IEC 81346-2 • according to IEC 81346-2 WG • according to IEC 81346-2 WG • according to IEC 81346-2 WG • to web site: Information / internet-Links http://www.siemens.com/tia-selection-lool Internet-Link http://www.siemens.com/tia-selection-lool • to website: Industrial communication http://www.siemens.com/tia-selection-lool • to website: Industrial communication http://www.siemens.com/tia-selection-lool • to web | • | |
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| French marine classification society (BV) Det Norske Veritas (DNV) No Germanische Lloyd (GL) No Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) No Polski Rejestr Statkow (PRS) No reference code according to IEC 81346-2 WG according to IEC 81346-2.2019 WGB further information / internet-Links Internet-Link to website: Industrial communication http://www.siemens.com/tia-selection-tool to website: Industry Mall https://mall.industry.siemens.com to website: Selection guide for cables and connectors to website: Selection guide for cables and connectors to website: Image database http://www.siemens.com/bilddb http://www.siemens.com/bilddb http://www.siemens.com/bilddb http://www.siemens.com/bilddb | UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes Yes Yes |
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| • 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: Selection guide for cables and connectors https://sie.ag/2QdlxcP • to website: Image database http://automation.siemens.com/bilddb • to website: CAx-Download-Manager http://www.siemens.com/cax | UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity standard for structured cabling 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 • according to IEC 81346-2 • according to IEC 81346-2:2019 further information / internet-Links | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes Yes Yes Cat5e No No No No No No No No |
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| • to website: Information and Download Center http://www.siemens.com/industry/infocenter • to website: Selection guide for cables and connectors https://sie.ag/2QdlxcP • to website: Image database http://automation.siemens.com/bilddb • to website: CAx-Download-Manager http://www.siemens.com/cax | UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity standard for structured cabling 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) 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 | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes Yes Cat5e No No No No No No No WG WGB |
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