SIEMENS

Data sheet

6XV1878-5BH50

product type designation product description

IE Connecting Cable IE FC RJ45-180 / IE FC RJ45-180

Flexible plug-in cable (8-wire), preferred length, prefabricated with two IE FC RJ45 connectors $4\mathrm{X2}$

IE connecting cable IE FC RJ45 Plug-180/IE FC RJ45 Plug-180; IE FC flexible GP 4x2 cable Pre-assembled with 2x IE FC RJ45 plug 180 4 x 2 length 5.0 m



suitability for use	For connecting Industrial Ethernet stations with an RJ45 interface (10/100/1000/10000Mbps)
wire length	5 m
electrical data	
number of electrical connections	2
attenuation factor per length	
• at 10 MHz / maximum	0.089 dB/m
• at 100 MHz / maximum	0.287 dB/m
• at 250 MHz / maximum	0.466 dB/m
• at 300 MHz / maximum	0.514 dB/m
• at 500 MHz / maximum	0.679 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
• at 1 MHz 100 MHz	0.453 dB/m
• at 1 MHz 250 MHz	0.393 dB/m
• at 1 MHz 300 MHz	0.381 dB/m
• at 1 MHz 500 MHz	0.348 dB/m
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	180 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
NVP value in percent	68 %
mechanical data	
number of electrical cores	8
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
type of electrical connection / FastConnect	Yes
core diameter	
 of AWG24 insulated conductor 	0.51 mm
outer diameter	
of inner conductor	0.6 mm
of the wire insulation	1.05 mm
 of the inner sheath of the cable 	6.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	

• of cable sheam P/C color white-bluebblue, white-orange/trange, white-green/green, white-brownbrown • of cable sheam green Persong radius 24 nm • with angle bend / minimum persisable 24 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm • with angle bend / minimum persisable 40 nm	 of the wire insulation 	polyethylene (PE)
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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) • Polski Rejestr Statkow (PRS) reference code • according to IEC 81346-2 • according to IEC 81346-2 • wGB further information / internet links internet link • to web page: selection aid TIA Selection Tool http://www.siemens.com/tia-selection-tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e	Yes Yes Yes
• American Bureau of Shipping Europe Ltd. (ABS)No• 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• Polski Rejestr Statkow (PRS)No• according to IEC 81346-2WG• according to IEC 81346-2:2019WGBfurther Information / internet linkInttp://www.siemens.com/tia-selection-tool• to web page: selection aid TIA Selection Toolhttp://www.siemens.com/simatic-net• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://www.siemens.com/industry/infocenter• to website: Information and Download Centerhttp://www.siemens.com/industry/infocenter	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP)	Yes Yes Yes Yes
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Det Norske Veritas (DNV)NoGermanische Lloyd (GL)NoLloyds Register of Shipping (LRS)NoNippon Kaiji Kyokai (NK)NoPolski Rejestr Statkow (PRS)NoPolski Rejestr Statkow (PRS)Noreference code• according to IEC 81346-2WG• according to IEC 81346-2:2019WGBfurther information / internet links• to web page: selection aid TIA Selection Toolhttp://www.siemens.com/tia-selection-tool• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industrial communicationhttp://www.siemens.com• to website: Industrial communicationhttp://www.siemens.com/industry/infocenter• to website: Information and Download Centerhttp://www.siemens.com/industry/infocenter	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) standard for structured cabling Marine classification association	Yes Yes Yes Yes Yes Cat6A, class EA
• Germanische Lloyd (GL)No• Lloyds Register of Shipping (LRS)No• Nippon Kaiji Kyokai (NK)No• Polski Rejestr Statkow (PRS)Noreference code	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) standard for structured cabling Marine classification association • American Bureau of Shipping Europe Ltd. (ABS)	Yes Yes Yes Yes Yes Cat6A, class EA No
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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	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) 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 Yes Yes Yes Cat6A, class EA No No No No No No No No No WG
to website: Industry Mall to website: Information and Download Center <u>http://www.siemens.com/industry/infocenter</u>	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) 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 • according to IEC 81346-2 internet link	Yes Yes Yes Yes Cat6A, class EA No No No No No No No No No WG WGB
• to website: Information and Download Center <u>http://www.siemens.com/industry/infocenter</u>	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) 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 • according to IEC 81346-2 • according to IEC 81346-2 • to web page: selection aid TIA Selection Tool	Yes Yes Yes Yes Cat6A, class EA No No No No No No No No No No No No No
	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) 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 • according to IEC 81346-2:2019 further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication	Yes Yes Yes Yes Cat6A, class EA No No No No No No No No No No No No No
to website: Selection guide for cables and connectors <u>https://sie.ag/2QdlxcP</u>	UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP) 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 • 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: Industry Mall	Yes Yes Yes Yes Cat6A, class EA No No No No No No No No No No No No No
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