## **SIEMENS**

Data sheet 6XV1870-3QH30

## product type designation

product description

## IE TP Cord RJ45/RJ45, 4x2

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)

Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 3 m.



suitability for use	Easy connection of terminal devices to the IE FC cabling system
cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
wire length	3 m
electrical data	
number of electrical connections	2
attenuation factor per length	
• at 10 MHz / maximum	0.086 dB/m
• at 100 MHz / maximum	0.28 dB/m
• at 300 MHz / maximum	0.501 dB/m
• at 600 MHz / maximum	0.735 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
• at 10 MHz 600 MHz	100 Ω
relative symmetrical tolerance	
• of the characteristic impedance at 1 MHz 100 MHz	15 %
• of the characteristic impedance at 10 MHz 600 MHz	10 %
coupling loss / at 30 MHz 100 MHz / minimum	70 dB
transfer impedance per length / at 10 MHz	10 mΩ/m
loop resistance per length / maximum	290 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	80 %
nechanical data	
number of electrical cores	8
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
core diameter	
<ul> <li>of AWG26 insulated conductor</li> </ul>	0.5 mm
outer diameter	
of inner conductor	0.5 mm
of the wire insulation	1 mm
of cable sheath	6.2 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	
of the wire insulation	polyethylene (PE)
of cable sheath	FRNC
color	
<ul> <li>of the insulation of data wires</li> </ul>	white/blue, white/orange, white/green, white/brown

bending radius  with single bend / minimum permissible  43.5 mm  weight per length  50 kg/km  ambient temperature  during operation  -25 +80 °C  -4 during installation  -25 +80 °C  -4 during installation  -25 +80 °C  -4 during installation  -10 -10 fame resistant according to IEC 60332-1-2, smoke density according to IEC 61034  fame resistant according to IEC 60332-1-2, smoke density according to IEC 61034  class of burning behaviour / according to EN 13501-6  chemical resistance  - to mineral oil  - to grease  radiological resistance / to UV radiation  protection class IP  product features, product functions, product components / general  product features, product functions, product components / general  product feature  - halogen-free  - yes  standards, specifications, approvals  UL/ETL isting / 300 V Rating  Ves; E130266 AWM STYLE 21279  certificate of suitability  - EAC approval  - UL approval  - Ves  - RAHS conformity  Yes  standards, specifications association  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification sosociation  - American Bureau of Shipping Europe Ltd. (ABS)  - French marine classification society (BV)  - Del Norsek Vertias (DIN)  - Del Norsek Vertias (DIN)  - Del Norsek Vertias (DIN)  - No  - Ulpost Rejets Statkow (PRS)	of cable sheath	green
with single bend / minimum permissible weight per length weight per length weight per length subject to conditions  ambient conditions  ambient emperature during storage during storage during installation - 225 +80 °C - 25 +80 °C during installation - 225 +80 °C - 1 In fixed installation -40 °C to 80 °C In fixed installation -40 °C to 80 °C fire behavior fire behavior fire behavior fire behavior fire behavior or during behaviour / according to EN 13501-6 Eca  class of burning behaviour / according to EN 13501-6 Eca chemical resistance  to mineral oil oil resistant according to IEC 60831-2-1 (4 h / 70°C)  oil resistant according to IEC 60811-2-1 (4 h / 70°C)  oil resistant according to IEC 60811-2-1 (4 h / 70°C)  oil resistant according to IEC 60811-2-1 (5 h / 70°C)  oil resistant according to IEC 60811-2-1 (5 h / 70°C)  oil resistant according to IEC 60811-2-1 (5 h / 70°C)  oil resistant according to IEC 60811-2-1 (6 h / 70°C)  oil resistant according to IEC 60811-2-1 (6 h / 70°C)  oil resistant according to IEC 60811-2-1 (6 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (7 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h / 70°C)  oil resistant according to IEC 60811-2-1 (8 h		
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weight per length  smblent conditions  ambient temperature  • during preadure  • during storage  • during installation  • outring installation  • outr		43.5 mm
amblent conditions  amblent temperature  • during operation  • during storage  • during transport  • during installation  • during installation  • during installation  • otoe  In fixed installation -40 °C to 80 °C  fire behavior  fire behavior  fine tensistant according to IEC 60332-1-2, smoke density according to IEC 61034  class of burning behaviour / according to EN 13501-6  chemical resistance  • to mineral oil  • to grease  radiological resistance / to UV radiation  protection class IP  product features, product functions, product components / general  product features, product functions, product components / general  product feature  • halogen-free  • silicon-free  • silicon-free  • Specifications, approvals  UL/ETL Isting / 300 V Rating  UL/ETL Isting / 300 V Rating  Ves; E130266 AWM STYLE 21279  certificate of suitability  • EAC approval  • UL approval  • RoHS conformity  Yes  standard for structured cabling  American Bureau of Shipping Europe Ltd. (ABS)  • Prench marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • Prench marine classification society (BV)  • Det Norske Verlass (DNY)  • Det Norske Verlass (DNY)  • Det Norske Verlass (DNY)  • Polski Rejestr Statkow (PRS)		
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<ul> <li>during operation</li> <li>-25 +80 °C</li> <li>during storage</li> <li>-25 +80 °C</li> <li>during transport</li> <li>-25 +80 °C</li> <li>during installation</li> <li>-25 +80 °C</li> <li>in fixed installation -40 °C to 80 °C</li> <li>fire behavior</li> <li>flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034</li> <li>class of burning behaviour / according to EN 13501-6</li> <li>chemical resistance</li> <li>io innieral oil</li> <li>io grease</li> <li>conditional resistance</li> <li>in fixed installation -40 °C to 80 °C</li> <li>floring asses</li> <li>radiological resistance / to UV radiation</li> <li>not resistant</li> <li>product features, product functions, product components / general</li> <li>product features</li> <li>salicon-free</li> <li>Yes</li> <li>standard's, specifications, approvals</li> <li>ULETL listing / 300 V Rating</li> <li>No</li> <li>ULETL style / 600 V Rating</li> <li>Yes</li> <li>Eacachdraws, specification spec</li></ul>		
<ul> <li>during storage</li> <li>during transport</li> <li>during installation</li> <li>during installation</li> <li>note</li> <li>In fixed installation +0 °C to 80 °C</li> <li>flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034</li> <li>class of burning behaviour / according to EN 13501-6</li> <li>chemical resistance</li> <li>to mineral oil</li> <li>to grease</li> <li>radiological resistance / to UV radiation</li> <li>protection class IP</li> <li>product features, product functions, product components / general</li> <li>product feature</li> <li>salicon-free</li> <li>silicon-free</li> <li>silicon-free</li> <li>yes</li> <li>standard fo, specifications, approvals</li> <li>UL/ETL style / 600 V Rating</li> <li>Ves</li> <li>eAC approval</li> <li>PCAC approval</li> <li>PCAC approval</li> <li>PCAC approval</li> <li>PCAC approval</li> <li>PCAC approval</li> <li>PCAC approval</li> <li>AROHS conformity</li> <li>Standard for structured cabiling</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>No</li> <li>PCH Norske Veritas (DNV)</li> <li>PCE Norske Veritas (DNV)</li> <li>No</li> <li>PCE Norske Veritas (DNV)</li> <li>No</li> <li>Polski Rejestr Stalkow (PRS)</li> <li>No</li> <li>Polski Rejestr Stalkow (PRS)</li> <li>No</li> </ul>	·	-25 +80 °C
<ul> <li>during transport</li> <li>during installation</li> <li>25 +80 °C</li> <li>note</li> <li>In fixed installation -40 °C to 80 °C</li> <li>fire behavior</li> <li>flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034</li> <li>class of burning behaviour / according to EN 13501-6</li> <li>class of burning behaviour / according to EN 13501-6</li> <li>chemical resistance <ul> <li>to mineral oil</li> <li>oil resistant according to IEC 60811-2-1 (4 h / 70°C)</li> </ul> </li> <li>conditional resistance <ul> <li>not resistant</li> </ul> </li> <li>product features, product functions, product components / general</li> <li>product features, product functions, product components / general</li> </ul> <li>product features, specifications, approvals</li> <li>UL/ETL listing / 300 V Rating</li> <li>No</li> <li>UL/ETL style / 600 V Rating</li> <li>Yes; E130266 AWM STYLE 21279</li> <li>certificate of suitability</li> <li>EAC approval</li> <li>Ves</li> <li>UL approval</li> <li>ROHS conformity</li> <li>Yes</li> <li>standard for structured cabling</li> <li>Armerican Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Det Norske Veritas (DNV)</li> <li>Oermanische Lloyd (GL)</li> <li>No</li> <li>Olippon Kajii Kyokai (NK)</li> <li>No</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li>		
<ul> <li>during installation</li> <li>note</li> <li>In fixed installation -40 °C to 80 °C</li> <li>fire behavior</li> <li>flame resistant according to IEC 60332-1-2; smoke density according to IEC 61034</li> <li>class of burning behaviour / according to EN 13501-6</li> <li>chemical resistance</li> <li>to mineral oil</li> <li>to grease</li> <li>Conditional resistance</li> <li>radiological resistance / to UV radiation</li> <li>protection class IP</li> <li>product features, product functions, product components / general</li> <li>product feature</li> <li>halogen-free</li> <li>silicon-free</li> <li>yes</li> <li>standards, specifications, approvals</li> <li>UL/ETL Isting / 300 V Rating</li> <li>Ves; E130266 AWM STYLE 21279</li> <li>certificate of suitability</li> <li>EAC approval</li> <li>Ves</li> <li>ROHS conformity</li> <li>yes</li> <li>standard for structured cabling</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Oe Germanische Lloyd (GL)</li> <li>No</li> <li>Olippon Kajii Kyokai (NK)</li> <li>No</li> <li>Ploski Rejestr Statkow (PRS)</li> <li>No</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>		
• note   In fixed installation -40 °C to 80 °C		
fire behavior  class of burning behaviour / according to EN 13501-6  chemical resistance  • to mineral oil  • to grease  Conditional resistance  radiological resistance / to UV radiation  protection class IP  product feature  • halogen-free  • silicon-free  • silicon-free  • silicon-free  • soll version of suitability  EAC approval  • Lo approval  • RoHS conformity  standard for structured cabling  American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Det Norske Veritas (DNV)  • No  • Lloyds Register of Shipping (LRS)  • No  • Polski Rejestr Statkow (PRS)	-	
class of burning behaviour / according to EN 13501-6  chemical resistance  • to mineral oil  • to grease  radiological resistance / to UV radiation protection class IP product features, product functions, product components / general  product feature  • halogen-free  • silicon-free  **Standards, specifications, approvals**  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  • EAC approval  • UL approval  • ROHS conformity  • RACH schormity  **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) • Loyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS)		
chemical resistance  • to mineral oil  • to grease  Conditional resistance  radiological resistance / to UV radiation  protection class IP  product features, product functions, product components / general  product feature  • halogen-free  • silicon-free  • silicon-free  • silicon-free  Ves  standards, specifications, approvals  UL/ETL listing / 300 V Rating  Ves; E130266 AWM STYLE 21279  certificate of suitability  • EAC approval  • UL approval  • UL approval  • 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)  • No  • Nippon Kaiji Kyokai (NK)  • No  • Nolski Rejestr Statkow (PRS)		
to mineral oil to grease  radiological resistance / to UV radiation protection class IP product features, product functions, product components / general product features, product functions, product components / general product feature halogen-free silicon-free ves standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  Ves; E130266 AWM STYLE 21279  certificate of suitability EAC approval Roh's conformity Standard for structured cabling  Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Germanische Lloyd (GL) Certificate of Shipping (LRS) No	class of burning behaviour / according to EN 13501-6	Eca
• to grease Conditional resistance radiological resistance / to UV radiation not resistant protection class IP IP20  product features, product functions, product components / general  product feature  • halogen-free Yes • silicon-free Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating No  UL/ETL style / 600 V Rating Yes; E130266 AWM STYLE 21279  certificate of suitability • EAC approval Yes • UL approval Yes • RoHS conformity Yes  standard for structured cabling Cat6A  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) No • French marine classification society (BV) No • Det Norske Veritas (DNV) No • Germanische Lloyd (GL) No • Nippon Kaiji Kyokai (NK) No • Polski Rejestr Statkow (PRS) No	chemical resistance	
radiological resistance / to UV radiation not resistant protection class IP IP20  product features, product functions, product components / general  product feature	• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
product features, product functions, product components / general  product feature	• to grease	Conditional resistance
product feature	radiological resistance / to UV radiation	not resistant
product feature  • halogen-free • silicon-free  * Yes  • silicon-free  * Yes  * standards, specifications, approvals  UL/ETL listing / 300 V Rating  No  UL/ETL style / 600 V Rating  Certificate of suitability  • EAC approval • UL approval • UL approval • RoHS conformity  * 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)	protection class IP	IP20
<ul> <li>halogen-free</li> <li>silicon-free</li> <li>Yes</li> <li>standards, specifications, approvals</li> <li>UL/ETL listing / 300 V Rating</li> <li>No</li> <li>UL/ETL style / 600 V Rating</li> <li>Certificate of suitability</li> <li>EAC approval</li> <li>UL approval</li> <li>Ves</li> <li>UL approval</li> <li>RoHS conformity</li> <li>Standard for structured cabling</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>	product features, product functions, product components / gen	eral
• silicon-free Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating No  UL/ETL style / 600 V Rating Yes; E130266 AWM STYLE 21279  certificate of suitability  • EAC approval Yes  • UL approval Yes  • RoHS conformity Yes  standard for structured cabling Cat6A  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS) No  • French marine classification society (BV) No  • Det Norske Veritas (DNV) No  • Germanische Lloyd (GL) No  • Nippon Kaiji Kyokai (NK) No  • Polski Rejestr Statkow (PRS) No	product feature	
Standards, specifications, approvals  UL/ETL listing / 300 V Rating  Ves; E130266 AWM STYLE 21279  certificate of suitability  EAC approval  UL approval  ROHS conformity  Standard for structured cabling  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  No  Polski Rejestr Statkow (PRS)	• halogen-free	Yes
UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  EAC approval  UL approval  ROHS conformity  standard for structured cabling  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)	• silicon-free	Yes
UL/ETL style / 600 V Rating  certificate of suitability  EAC approval UL approval RoHS conformity  Yes  standard for structured cabling  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) No No	standards, specifications, approvals	
certificate of suitability  EAC approval  UL approval  RoHS conformity  Yes  standard for structured cabling  Cat6A  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)	UL/ETL listing / 300 V Rating	No
EAC approval  UL approval  RoHS conformity  Yes  standard for structured cabling  Cat6A  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  No  No  No  Polski Rejestr Statkow (PRS)	UL/ETL style / 600 V Rating	Yes; E130266 AWM STYLE 21279
UL approval ROHS conformity Yes  standard for structured cabling Cat6A  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 No Polski Rejestr Statkow (PRS) No No	certificate of suitability	
RoHS conformity  Standard for structured cabling  Cat6A  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  No  Polski Rejestr Statkow (PRS)  No	<ul> <li>EAC approval</li> </ul>	Yes
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)	UL approval	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)	RoHS conformity	Yes
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>No</li> <li>Det Norske Veritas (DNV)</li> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>No</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>	standard for structured cabling	Cat6A
<ul> <li>French marine classification society (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>No</li> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>No</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul>	Marine classification association	
<ul> <li>Det Norske Veritas (DNV)</li> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>No</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul>	<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul>	<ul> <li>French marine classification society (BV)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul>	<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> </ul>	Germanische Lloyd (GL)	No
Polski Rejestr Statkow (PRS)     No	<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
	<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
reference code	Polski Rejestr Statkow (PRS)	No
.5.5.5.6.5	reference code	
• according to IEC 81346-2 WG	<ul><li>according to IEC 81346-2</li></ul>	WG
• according to IEC 81346-2:2019 WGB	• according to IEC 81346-2:2019	WGB
further information / internet links	further information / internet links	
internet link	internet link	
• to web page: selection aid TIA Selection Tool <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>	<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>	• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Selection guide for cables and connectors <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>	• to website: Selection guide for cables and 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>	• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	• to website: Industry Online Support	https://support.industry.siemens.com

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