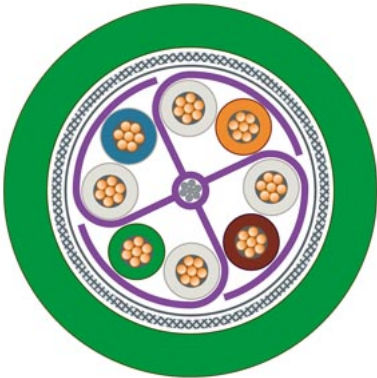


product type designation	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter
product description	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled
	IE FC TP Flexible Cable GP 4x2 FastConnect Flexible Cable GP 4x 2, TP installation CAT7 cable for connection to IE FC RJ45 plug 4x 2 and IE FC M12 plug PRO 4x2, AWG26, sold by the meter, package item max. 2000 m minimum order quantity 20 m
suitability for use	Flexible cable for quick assembly, for occasionally moving machine parts
cable designation	02YSCY 4X2X0.5/1.15-100 LI PIMF GN
electrical data	
attenuation factor per length - at 10 MHz / maximum - at 100 MHz / maximum - at 300 MHz / maximum - at 600 MHz / maximum	0.088 dB/m 0.285 dB/m 0.513 dB/m 0.751 dB/m
impedance at 1 MHz ... 100 MHz	100 Ω
near-end crosstalk per length - at 10 MHz - at 100 MHz - at 300 MHz - at 600 MHz	0.78 dB/m 0.724 dB/m 0.653 dB/m 0.608 dB/m
loop resistance per length / maximum	290 mΩ/m
operating voltage - RMS value - maximum	100 V 100 V
NVP value in percent	69 %
mechanical data	
number of electrical cores	8
design of the shield	overlapped aluminum-laminated foil, sheathed in a protective braided shield of tinned copper wires, central shielding wire of the line must be connected to the shield contact during plug assembly (see assembly video)
type of electrical connection / FastConnect	Yes
core diameter of AWG26 insulated conductor	0.47 mm
outer diameter - of inner conductor - of the wire insulation - of cable sheath	0.47 mm 1.15 mm 8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material - of the wire insulation - of cable sheath	polyethylene (PE) PVC
color of the insulation of data wires	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown

• of cable sheath	green
bending radius	
• with single bend / minimum permissible	40 mm
• with multiple bends / minimum permissible	80 mm
tensile load / maximum	100 N
weight per length	65 kg/km
ambient conditions	
ambient temperature	
• during operation	-30 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-30 ... +70 °C
ambient condition / for operation	temperature range for permanent installation -40 °C to +70 °C
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	90 m
• with 1000BaseT	90 m
• for 10GBase T	75 m
• for 2.5GBaseT	100 m
• for 5GBaseT	100 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254 CM 75°C
UL/ETL style / 600 V Rating	Yes; E502506 cRUus AWM 21695 I A/B 80°C 600V FT2
certificate of suitability	
• EAC approval	Yes
• CE marking	Yes
• RoHS conformity	Yes
product conformity	
• ANSI/TIA-EIA 568-B.2 Cat.5e	Yes
• IEC 61784-5-2-CP 2/2 (Ethernet/IP)	Yes
standard for structured cabling	Cat7
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
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	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 web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• 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
- to website: Industry Online Support

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

last modified:

11/9/2023 