

Product type designation

Product description

IE TP Ground Cable 2x2 (Type C)

Standard bus cable (4-core), for laying underground, sold by the meter, unassembled

IE ground cable 2x2 Underground laying cable 4-core shielded Sold by the meter Delivery length max. 1000 m Minimum order 20 m



Suitability for use	Standard cable with rigid cores for fast installation
Cable designation	2YY(ST)CY2Y2x2x0.64/1.50-100 SF/UTP

Electrical data

Damping ratio 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	10 m Ω /m
Loop resistance per length / maximum	124 m Ω /m
Operating voltage	
• RMS value	100 V

NVP value in percent	64 %
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
Type of electrical connection / FastConnect	Yes
Core diameter	
• of AWG22 core	0.64 mm
Outer diameter	
• of inner conductor	0.64 mm
• of the wire insulation	1.5 mm
• of the inner sheath of the cable	4 mm
• of cable sheath	9 mm
• of cable sheath / Note	Cable diameter >6.5 mm because of additional PE outer cover. Cable can only be connected to RJ45/M12 connector after outer cover is removed.
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
• of cable sheath	PE/PVC
Color	
• of the insulation of data wires	white/yellow/blue/orange
• of cable sheath	Black
Bending radius	
• with single bend / minimum permissible	80 mm
• with multiple bends / minimum permissible	80 mm
Tensile load / maximum	150 N
Weight per length	97 kg/km
Ambient conditions	
Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-5 ... +50 °C
• Note	Electrical properties measured at 20 °C, tests according to EN50288-2-1
Burning behavior	flammable
Class of burning behaviour / according to EN 13501-6	Fca
Chemical resistance	

• to mineral oil • to grease • to water	conditional resistance
	Conditional resistance
	Resistant
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	100 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• CE marking	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat5e
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (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

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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: Image database	http://automation.siemens.com/bilddb
• to website: CAX Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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