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Assembled PROFINET cable, CAT5e, shielded, star quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP67 push/pull metal housing to RJ45 plug/IP67 push/pull metal housing, line, length: 2 m



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 857031
GTIN	4046356857031
Weight per Piece (excluding packing)	152.780 g
Custom tariff number	85444210
Country of origin	Poland

Technical data

Dimensions

Length of cable	2.00 m

Ambient conditions

Degree of protection	IP67 (RJ45 connector)
Ambient temperature (operation)	-40 °C 70 °C (RJ45 connector)

General data

Rated current at 40°C	1 A
Rated voltage	50 V
Number of positions	4
Standards/regulations	IEC PAS 61076-3-117
Overvoltage category	I
Degree of pollution	2
Alternative short product description	PROFINET cable
Locking type	Push Pull
Rated voltage (III/3)	72 V (DC)



Technical data

Characteristics head 1

Color	silver
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	Zinc die-cast, nickel-plated (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C 70 °C

Characteristics head 2

Color	silver
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	Zinc die-cast, nickel-plated (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C 70 °C

Standards and Regulations

Standards/regulations	IEC PAS 61076-3-117
Flammability rating according to UL 94	V0

Cable

Cable type	PROFINET PVC stranded CAT5
Cable type (abbreviation)	93B
UL AWM style	21694
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	EtherCAT® CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm²
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.55 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 0.9 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Cable weight	67 kg/km



Technical data

Cable

Insulation resistance ≥ 50 Loop resistance ≤ 12 Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 cm 70 cm 65 cm 63 cm 60 cm 55 cm 50 cm	C an-plated Cu litz wires in-plated Cu litz
Material conductor insulation PE Conductor material Tin- Insulation resistance ≥ 50 Loop resistance ≤ 12 Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 cm 70 cm 65 cm 63 cm 60 cm 55 cm 50 cm	ti-plated Cu litz wires 500 MΩ*km 20.00 Ω/km 0 Ω ±15 Ω (at 100 MHz) dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 10 MHz) dB (at 10 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
Conductor material Tin- Insulation resistance ≥ 50 Loop resistance ≤ 12 Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 c 70 c 65 c 63 c 60 c 55 c 50 c	I-plated Cu litz wires 500 MΩ*km 20.00 Ω/km 0 Ω ±15 Ω (at 100 MHz) dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
Insulation resistance ≥ 50 Loop resistance ≤ 12 Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 cm 70 cm 65 cm 63 cm 60 cm 55 cm 50 cm	500 MΩ*km 20.00 Ω/km 0 Ω ±15 Ω (at 100 MHz) dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
Loop resistance ≤ 12 Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 c 70 c 65 c 63 c 60 c 55 c 50 c	20.00 Ω/km 0 Ω ±15 Ω (at 100 MHz) dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
Wave impedance 100 Near end crosstalk attenuation (NEXT) 80 c 70 c 65 c 63 c 60 c 55 c 50 c	D Ω ±15 Ω (at 100 MHz) dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
Near end crosstalk attenuation (NEXT) 80 c 76 c 70 c 65 c 63 c 60 c 55 c 50 c	dB (with 1 MHz) dB (at 4 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
76 c 70 c 65 c 63 c 60 c 55 c	dB (at 4 MHz) dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
70 c 65 c 63 c 60 c 55 c	dB (at 10 MHz) dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
65 c 63 c 60 c 55 c	dB (at 16 MHz) dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
63 c 60 c 55 c	dB (at 20 MHz) dB (at 31.25 MHz) dB (at 62.5 MHz)
60 c 55 c	dB (at 31.25 MHz) dB (at 62.5 MHz)
55 c 50 c	dB (at 62.5 MHz)
50 c	· · · · · · · · · · · · · · · · · · ·
Allerander	dB (at 100 MHz)
Attenuation 2.1	dB (with 1 MHz)
4 dF	B (at 4 MHz)
6.3	dB (at 10 MHz)
8 df	B (at 16 MHz)
9 df	B (at 20 MHz)
11.4	4 dB (at 31.25 MHz)
16.5	5 dB (at 62.5 MHz)
21.3	3 dB (at 100 MHz)
Signal speed 0.66	6 c
Signal runtime 5.3	s ns/m
Coupling resistance ≤ 20	20.00 mΩ/m (at 10 MHz)
Nominal voltage, cable 600	0 V
Test voltage Core/Core 200	00 V (50 Hz, 1 min.)
Test voltage Core/Shield 200	00 V (50 Hz, 1 min.)
Flame resistance Acc	cording to UL 1685 (CSA FT 4)
Resistance to oil Res	sistant to oil to a limited extent
Other resistance UV	resistant According to UL 1581, Section 1200
Ambient temperature (operation) -40	°C 70 °C (cable, fixed installation)
-40	°C 70 °C (cable, flexible installation)
Ambient temperature (installation) -20	(,
Ambient temperature (storage/transport) -50	0 °C 60 °C

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50



Technical data

Environmental Product Compliance

For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
Category Warrandourer's declaration

Drawings

Schematic diagram

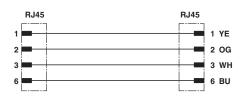


Cable cross section



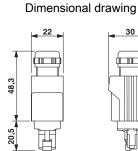
Connector pin assignment plug RJ45

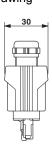
Circuit diagram



Contact assignment of RJ45 plugs

PROFINET PVC stranded CAT5 [93B]





RJ45 Push-Pull connector, IP67

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27060308
eCl@ss 8.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC002599



Classifications

UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604

UNSPSC 12.01		31261501	
UNSPSC 13.2		26121604	
Approvals			
Approvals			
Approvals			
EAC			
Ex Approvals			
Approval details			
EAC	ERE		B.00767

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