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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 1 m



Ethernet

Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 046356 856775 |
| GTIN | 4046356856775 |
| Weight per Piece (excluding packing) | 58.990 g |
| Custom tariff number | 85444210 |
| Country of origin | Poland |

Technical data

Dimensions

| Length of cable | 1.00 m |
|-----------------|--------|
|-----------------|--------|

Ambient conditions

| Degree of protection | IP20 (RJ45 connector) |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -20 °C 70 °C (RJ45 connector) |

General data

| Rated current at 40°C | 1 A |
|---------------------------------------|----------------|
| Rated voltage | 50 V |
| Number of positions | 8 |
| Degree of pollution | 2 |
| Alternative short product description | Ethernet cable |
| Rated voltage (III/3) | 72 V (DC) |

Characteristics head 1

| Color | I grav |
|-------|--------|
| 00101 | l a.a. |
| | |



Technical data

Characteristics head 1

| Material (component) | CuSn (Contact) |
|---------------------------------|-------------------------|
| | Ni/Au (Contact surface) |
| | PC (Contact carriers) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C 60 °C |

Characteristics head 2

| Color | gray |
|---------------------------------|-------------------------|
| Material (component) | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carriers) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C 60 °C |

Standards and Regulations

| Flammability rating according to UL 94 | V2 |
|--|----|
|--|----|

Cable

| - Casio | |
|---|--|
| Cable type | Ethernet, flexible, CAT5 |
| Cable type (abbreviation) | 94B |
| UL AWM style | 20963 (80°C/30 V) |
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
| Cable structure | 4x2xAWG26/7; SF/UTP |
| Conductor cross section | 4x 2x 0.14 mm² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.96 mm |
| Wire colors | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs for core |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 70 % |
| External sheath, color | water blue RAL 5021 |
| Outer sheath thickness | 1.05 mm |
| External cable diameter D | 6.4 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Tensile strength GRP | ≤ 100 N |
| Cable weight | 47 kg/km |
| Outer sheath, material | PUR |
| | |



Technical data

Cable

| Material conductor insulation | Foamed PE |
|--|---|
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Loop resistance | ≤ 290.00 Ω/km |
| Cable capacity | 48 nF/km (at 1 kHz) |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 71.3 dB (with 1 MHz) |
| | 62.3 dB (at 4 MHz) |
| | 56.3 dB (at 10 MHz) |
| | 53.2 dB (at 16 MHz) |
| | 51.8 dB (at 20 MHz) |
| | 48.9 dB (at 31.25 MHz) |
| | 44.4 dB (at 62.5 MHz) |
| | 41.3 dB (at 100 MHz) |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz) |
| | 53.3 dB (at 4 MHz) |
| | 47.3 dB (at 10 MHz) |
| | 44.2 dB (at 16 MHz) |
| | 42.8 dB (at 20 MHz) |
| | 39.9 dB (at 31.25 MHz) |
| | 35.4 dB (at 62.5 MHz) |
| | 32.3 dB (at 100 MHz) |
| Attenuation | 3.2 dB (with 1 MHz) |
| | 6 dB (at 4 MHz) |
| | 9.5 dB (at 10 MHz) |
| | 12.1 dB (at 16 MHz) |
| | 13.6 dB (at 20 MHz) |
| | 17.1 dB (at 31.25 MHz) |
| | 24.8 dB (at 62.5 MHz) |
| | 32 dB (at 100 MHz) |
| Return loss (RL) | 23 dB (at 4 MHz) |
| | 24.1 dB (at 8 MHz) |
| | 25 dB (at 10 MHz) |
| | 25 dB (at 16 MHz) |
| | 25 dB (at 20 MHz) |
| | 23.6 dB (at 31.25 MHz) |
| | 21.5 dB (at 62.5 MHz) |
| | 20.1 dB (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | \leq 100.00 m Ω /m (at 10 MHz) |



Technical data

Cable

| Nominal voltage, cable | ≤ 100 V |
|---|---|
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 V (50 Hz, 1 min.) |
| Flame resistance | according to IEC 60332-1-2 |
| Halogen-free | according to IEC 60754-1 |
| Resistance to oil | according to EN 60811-2-1 |
| Ambient temperature (operation) | -40 °C 80 °C (cable, fixed installation) |
| | -20 °C 80 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C 80 °C |
| Ambient temperature (storage/transport) | -20 °C 80 °C |

Environmental Product Compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

Drawings

Schematic diagram

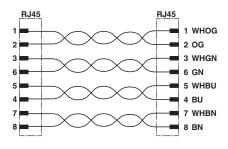


Cable cross section



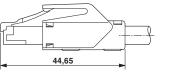
Connector pin assignment plug RJ45

Circuit diagram



Ethernet, flexible, CAT5 [94B]

Dimensional drawing





RJ45 connector, IP20

Contact assignment of RJ45 plugs

Classifications

eCl@ss

| eCl@ss 4.0 | 272607xx |
|------------|----------|
| eCl@ss 4.1 | 27260701 |



Classifications

eCl@ss

| 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 |

UNSPSC

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

Approvals

| Approvals |
|-----------|
|-----------|

Approvals

EAC

Ex Approvals

Approval details

| EAC | EAC | B.00767 | 7 |
|-----|-----|---------|---|
|-----|-----|---------|---|

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