

Product: <u>7987P</u> ☑



NanoSkew™ 4-24 AWG pairs, CMP

Product Description

NanoSkew™ 24 AWG twisted pairs solid bare copper conductors, FEP insulation, rip cord, Flamarrest® jacket.

Technical Specifications

Product Overview

| Suitable Applications: UTP Based Video Applications, Not for data transmission requiring TIA/EIA Category qualificat | ns, RGB |
|--|---------|
|--|---------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|---------|--------------|------------------|--------------|
| 24 | Solid | BC - Bare Copper | 4 |
| Condu | ctor Count: | | 8 |
| Total N | Number of Pa | airs: | 4 |

Insulation

| Material | |
|--------------------------------------|-----|
| FEP - Fluorinated Ethylene Propylene | |
| r idoffilated Ethyleric i Topyleric | |
| Bonded-Pair: | N/A |

Color Chart

| Number | Color | |
|--------|------------------------------|--|
| 1 | White/Blue Stripe & Blue | |
| 2 | White/Orange Stripe & Orange | |
| 3 | White/Green Stripe & Green | |
| 4 | White/Brown Stripe & Brown | |

Outer Shield



Outer Jacket

| Material | Material Trade Name | Nominal Diameter | Ripcord |
|--------------------------|---------------------|------------------|---------|
| PVC - Polyvinyl Chloride | Flamarrest® | 0.201 in | Yes |

Electrical Characteristics

Conductor DCR



Impedance

Nominal Characteristic Impedance
100 Ohm

Delay

| Nominal Velocity of Propagation (VP) [%] | Typical Delay Skew |
|--|--------------------|
| 70% | 0.007 ns/100m |

High Frequency

| Frequency [MHz] | Max./Min. Input Impedance (unFitted) | Max./Min. Fitted Impedance |
|-----------------|--------------------------------------|----------------------------|
| 1 MHz | 100 ± 15 | 100 ± 15 |
| 4 MHz | 100 ± 15 | 100 ± 15 |
| 8 MHz | 100 ± 15 | 100 ± 15 |
| 10 MHz | 100 ± 15 | 100 ± 15 |
| 16 MHz | 100 ± 15 | 100 ± 15 |
| 20 MHz | 100 ± 15 | 100 ± 15 |
| 25 MHz | 100 ± 15 | 100 ± 15 |
| 31.25 MHz | 100 ± 15 | 100 ± 15 |
| 62.5 MHz | 100 ± 15 | 100 ± 15 |
| 100 MHz | 100 ± 15 | 100 ± 15 |

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

| Operating Temperature Range: | -20°C To +75°C |
|------------------------------|----------------|

Mechanical Characteristics

| Bulk Cable Weight: | 21 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension: | 40 lbs |
| Min. Bend Radius/Minor Axis: | 0.2 in |

Standards

| NEC/(UL) Compliance: | CMP |
|-----------------------|-----|
| CEC/C(UL) Compliance: | CMP |

Applicable Environmental and Other Programs

| Environmental Space: | Indoor - Plenum |
|--|-----------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | Yes |
| EU CE Mark: | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| Suitability - Indoor: | Yes | |
|-----------------------|-----|--|

Flammability, LS0H, Toxicity Testing

| UL Flammability: | NFPA 262 |
|--------------------|-----------|
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| Plenum (Y/N): | Yes | | |
|---------------|-----|--|--|
|---------------|-----|--|--|

Related Part Numbers

| Non-Plenum Number: | 7987R | |
|--------------------|-------|--|

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|------------|-------------|----------|--------------|
| 7987P 1NDU1000 | Maroon 1ND | UnReel | 1,000 ft | 612825192503 |
| 7987P 1NDU1640 | Maroon 1ND | UnReel | 1,640 ft | 612825192510 |

Product Notes

| Notes: | Jacket sequentially marked at 2 ft. intervals. |
|--------|--|
| | |

History

| Update and Revision: | Revision Number: 0.376 Revision Date: 12-20-2022 |
|----------------------|--|

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.