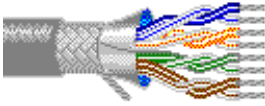



8107 Paired - Low Capacitance Computer Cable for EIA RS-232/422 Applicatio

| | | |
|---|--|---|
|  |  | <p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : No. 5 for Paired Cables (Western Electric Standard).pdf</p> |
|---|--|---|

Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|--------------------|
| Number of Pairs | 7 |
| Total Number of Conductors | 14 |
| AWG | 24 |
| Stranding | 7x32 |
| Conductor Material | TC - Tinned Copper |

INSULATION:

| | |
|--------------------------------|-------------------------|
| Insulation Material Trade Name | Datalene® |
| Insulation Material | FPE - Foam Polyethylene |

Pair Color Code Chart :

| Number | Color | Number | Color |
|--------|-----------------------------|--------|-------------------------|
| 1 | White/Blue & Blue/White | 5 | White/Gray & Gray/White |
| 2 | White/Orange & Orange/White | 6 | Red/Blue & Blue/Red |
| 3 | White/Green & Green/White | 7 | Red/Orange & Orange/Red |
| 4 | White/Brown & Brown/White | | |

OUTER SHIELD:

| | |
|----------------------------------|------------|
| Outer Shield Material Trade Name | Beldfoil® |
| Outer Shield Type | Tape/Braid |

Outer Shield Material :

| Layer Number | Material Trade Name | Type | Material | % Coverage (%) |
|--------------|---------------------|-------|--|----------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | 100 |
| 2 | | Braid | TC - Tinned Copper | 65 |

| | |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

OUTER SHIELD DRAIN WIRE :

8107 Paired - Low Capacitance Computer Cable for EIA RS-232/422 Application

| | |
|--|--------------------|
| Outer Shield Drain Wire AWG | 24 |
| Outer Shield Drain Wire Stranding | 7x32 |
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |

OUTER JACKET:

| | |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .341 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

| | |
|----------------------------------|--------------------------|
| Operating Temperature Range | -30°C To +80°C |
| UL Temperature Rating | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight | 62.5 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 82.5 lbs. |
| Min. Bend Radius (Install) | 3.5 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification | CM |
| CEC/C(UL) Specification | CM |
| AWM Specification | UL Style 2919 (30 V 80°C) |
| EU CE Mark (Y/N) | Yes |
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |

FLAME TEST:

| | |
|---------------|-------------------|
| UL Flame Test | UL1685 UL Loading |
|---------------|-------------------|

PLENUM/NON-PLENUM:

| | |
|---------------|-------|
| Plenum (Y/N) | N |
| Plenum Number | 88107 |

ELECTRICAL CHARACTERISTICS:

| | |
|---|---|
| Nom. Characteristic Impedance | 100 Ohms |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 12.5 pF/ft |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 22 pF/ft |
| Nominal Velocity of Propagation | 78 % |
| Nom. Conductor DC Resistance @ 20 Deg. C | 24 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg. C | 3.5 Ohms/1000 ft |
| Max. Operating Voltage - UL | 30 V RMS (UL AWM Style 2919), 300 V RMS |
| Max. Recommended Current | 1.5 Amps per conductor @ 25°C |

NOTES:

8107 Paired - Low Capacitance Computer Cable for EIA RS-232/422 Applicatio

Notes Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|--------------|--------------------------|--------------|--------------------|--------------|-------|
| 8107 060100 | 7 PR #24 FHDPE SH PVC | 100 | 6.8 | CHROME | |
| 8107 0601000 | 7 PR #24 FHDPE SH PVC | 1000 | 63 | CHROME | C |
| 8107 060500 | 7 PR #24 FHDPE SH PVC | 500 | 33 | CHROME | C |

C = CRATE REEL PUT-UP.

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