

Part Number: 8164 Paired - Low Capacitance Computer Cables for EIA RS-232/422



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

DESCRIPTION:

24 AWG stranded (7x32) tinned copper conductors, twisted pairs, individually shielded with 100% Beldfoil®, 24 AWG stranded tinned copper drain wire, Datalene® insulation, overall Beldfoil® shield plus 65% tinned copper braid shield, PVC jacket.

PHYSICAL CHARACTERISTICS :

CONDUCTOR :

Number of Pairs: **4**
 Total Number of Conductors: **8**
 AWG: **24**
 Stranding: **7x32**
 Conductor Material: **TC - Tinned Copper**

INSULATION :

Insulation Material Trade Name: **Datalene®**
 Insulation Material: **FPE - Foam Polyethylene**
 Lay Length: **1 in.**
 Twists/ft.: **12**

Pair Color Code Chart:

| Number | Color | Number | Color |
|--------|---------------|--------|--------------|
| 1 | Black & Red | 4 | Black & Blue |
| 2 | Black & White | | |
| 3 | Black & Green | | |

INNER SHIELD :

Inner Shield Material Trade Name: **Beldfoil® (Z-Fold®)**
 Inner Shield Type: **Tape**
 Inner Shield Material: **Aluminum Foil-Polyester Tape**
 Inner Shield % Coverage: **100 %**
 Inner Shield Drain Wire AWG: **24**
 Inner Shield Drain Wire Stranding: **7x32**
 Inner Shield Drain Wire Conductor Material: **TC - Tinned Copper**

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 | 100 |
| 2 | | Braid | TC - Tinned Copper | 65 |

Outer Shield %Coverage: **100 %**

OUTER JACKET :

Outer Jacket Material: **PVC - Polyvinyl Chloride**

OVERALL NOMINAL DIAMETER :

Overall Nominal Diameter: **.388 in.**

MECHANICAL CHARACTERISTICS :

Operating Temperature Range: **-40° C To +60° C**

Non-UL Temperature Rating: **60° C (UL AWM Style 2493)**
 Bulk Cable Weight: **75 lbs/1000 ft.**
 Max. Recommended Pulling Tension: **111 lbs.**
 Min. Bend Radius (Install): **4 in.**

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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE :

APPLICABLE STANDARDS :

NEC/(UL) Specification: **CM**
 CEC/C(UL) Specification: **CM**
 AWM Specification: **UL Style 2493 (300 V 60° C)**

FLAME TEST :

UL Flame Test: **UL581 Vertical Tray, VW-1**

PLENUM/NON-PLENUM :

Plenum (Y/N): **N**

ELECTRICAL CHARACTERISTICS :

Nom. Characteristic Impedance: **100 Ω**
 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: **24.0 Ω/1000 ft**
 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: **18 Ω/1000 ft**
 Nominal Outer Shield DC Resistance @ 20 Deg. C: **3.2 Ω/1000 ft**
 Max. Operating Voltage - UL: **300 V RMS**
 Max. Recommended Current: **2.5 Amps per conductor @ 25° C**

NOTES :

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 |
|-----------------|-----------------------------|--------------|--------------------|--------------|-------|
| 8164 060100 | 4 FS PR #24 FHDPE SH PVC | 100 | 8.2 | CHROME | |
| 8164 0601000 | 4 FS PR #24 FHDPE SH PVC | 1000 | 79 | CHROME | C |
| 8164 060500 | 4 FS PR #24 FHDPE SH PVC | 500 | 39.5 | CHROME | C |