

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)

**Part Number: 8163 Paired - Low Capacitance Computer Cables for EIA RS-232/422**



**DESCRIPTION:**

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

**PHYSICAL CHARACTERISTICS :**

**CONDUCTOR :**

Number of Pairs: **3**  
 Total Number of Conductors: **6**  
 AWG: **24**  
 Stranding: **7x32**  
 Conductor Material: **TC - Tinned Copper**

**INSULATION :**

Insulation Material Trade Name: **Datalene®**  
 Insulation Material: **FPE - Foam Polyethylene**

**PAIR :**

Pair Lay Length: **1 in.**  
 Pair Twists/ft.: **12**  
 Pair Shield Material Trade Name: **Beldfoil® (Z-Fold®)**  
 Pair Shield Type: **Tape**  
 Pair Shield Material: **Aluminum Foil-Polyester Tape**  
 Pair Shield % Coverage: **100 %**

**PAIR SHIELD DRAIN WIRE :**

Pair Shield Drain Wire AWG: **24**  
 Pair Shield Drain Wire Stranding: **Stranded**  
 Pair Shield Drain Wire Conductor Material: **TC - Tinned Copper**

Pair Color Code Chart:

Number	Color	Number	Color
1	Black & Red	3	Black & Green
2	Black & White		

**OUTER SHIELD :**

Outer Shield Trade Name: **Beldfoil®**  
 Outer Shield Type: **Tape/Braid**  
 Outer Shield Material:

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-	100

			Polyester Tape	
2		Braid	TC-Tinned Copper	65

Outer Shield %Coverage: 100 %

**OUTER JACKET :**

Outer Jacket Material: PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER :**

Overall Nominal Diameter: .359 in.

**MECHANICAL CHARACTERISTICS :**

Operating Temperature Range: -40 ° C To +60 ° C  
 Temperature Rating: 60 ° C (UL AWM Style 2493)  
 Bulk Cable Weight: 76 lbs/1000 ft.  
 Max. Recommended Pulling Tension: 84 lbs.  
 Min. Bend Radius (Install): 3.75 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE :**

**APPLICABLE STANDARDS :**

NEC/(UL) Specification: CM  
 CEC/C(UL) Specification: CM  
 AWM Specification: 2493 (60 ° C)

**FLAME TEST :**

UL Flame Test: UL1581 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: 4.4 Ω/1000 ft  
 Max. Operating Voltage - UL: 300 V RMS  
 Other Maximum Continuous Currents: 1.6 Amps Per Conductor @ 25 ° C

**NOTES :**

Notes:

Datalene insulation features include low dielectric constant factor for high-speed, low-distortion data handling. Physic: good crush resistance and light weight.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8163 060100	3 FS PR #24 FHDPE SH PVC	100	7	CHROME	
8163 0601000	3 FS PR #24 FHDPE SH PVC	1000	66	CHROME	C
8163 060500	3 FS PR #24 FHDPE SH PVC	500	34	CHROME	C

C = CRATE REEL PUT-UP.