

## 8305 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) tinned copper conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
5	22	7x30	TC - Tinned Copper

Total Number of Conductors: 10

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.279

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

#### Overall Cable

Overall Nominal Diameter: 8.179 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	93.757 Kg/Km
Min. Bend Radius/Minor Axis:	82.550 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005

## METRIC MEASUREMENT VERSION

### 8305 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

#### Flame Test

CSA Flame Test:	FT4
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Electrical Characteristics (Overall)

##### Nom. Capacitance Conductor to Conductor:

###### Capacitance (pF/m)

114.835

##### Nom. Capacitance Cond. to Other Conductor & Shield:

###### Capacitance (pF/m)

206.703

##### Nominal Velocity of Propagation:

###### VP (%)

60

##### Nom. Conductor DC Resistance:

###### DCR @ 20°C (Ohm/km)

49.215

##### Nominal Outer Shield DC Resistance:

###### DCR @ 20°C (Ohm/km)

15.7488

##### Max. Operating Voltage - UL:

###### Voltage

300 V RMS

##### Max. Recommended Current:

###### Current

2.1 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8305 060100	100 FT	7.200 LB	CHROME		5 #22 PR PVC SHLD PVC
8305 0601000	1,000 FT	67.000 LB	CHROME	C	5 #22 PR PVC SHLD PVC
8305 060500	500 FT	35.000 LB	CHROME	C	5 #22 PR PVC SHLD PVC
8305 0605000	5,000 FT	340.000 LB	CHROME		5 #22 PR PVC SHLD PVC

##### Notes:

C = CRATE REEL PUT-UP.

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