Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9813 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



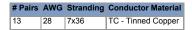
General Description:

28 AWG stranded (7x36) TC conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 28 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

26

Insulation

Insulation Material:

Insulation Material Wall Thickness (mm)
PP - Polypropylene | 0.229

Outer Shield

Outer Shield Material:

Layer #	ayer # Outer Shield Trade Name		Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter:

8.534 mm

Pair

Pair Color Code Chart:

Number	Color		
1	Black & Red		
2	Black & White		
3	Black & Green		
4	Black & Blue		
5	Black & Yellow		
6	Black & Brown		
7	Black & Orange		
8	Red & White		
9	Red & Green		
10	Red & Blue		
11	Red & Yellow		
12	Red & Brown		
13	Red & Orange		

Mechanical Characteristics (Overall)

Storage Temperature Range:	-35°C To +60°C	
Operating Temperature Range:	-30°C To +60°C	
UL Temperature Rating:	60°C (UL AWM Style 2960)	
Bulk Cable Weight:	92.268 Kg/Km	
Max. Recommended Pulling Tension:	515.991 N	

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Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:

CL2

AWM Specification: UL Style 2960 (30 V 60°C)

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.62339

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 50.8555

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 90.2275

Nominal Velocity of Propagation:

VP (%)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 212.937

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 7.2182

Max. Operating Voltage - UL:

 Voltage
 Description

 30 V RMS
 UL AWM Style 2960

 150 V RMS
 CL2

Max. Recommended Current:

Current
.65 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9813 060100	30 MT	3.175 KG	CHROME		13 PR #28 PP SH PVC
9813 0601000	305 MT	29.937 KG	CHROME	С	13 PR #28 PP SH PVC
9813 060500	152 MT	15.422 KG	CHROME	С	13 PR #28 PP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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9813 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Revision Number: 2 Revision Date: 09-14-2012

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