

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9807 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:

# Pairs	AWG	Stranding	Conductor Material
5	28	7x36	TC - Tinned Copper

Total Number of Conductors: 10

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.229

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	90

Outer Shield Drain Wire AWG:

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

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 6.096 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: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2960)

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 257.996 N

Min. Bend Radius/Minor Axis: 63.500 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

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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)
100

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

Minimum Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
212.937

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
13.7802

Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2960
150 V RMS	CL2

Max. Recommended Current:

Current
.9 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9807 060100	30 MT	1.950 KG	CHROME		5 PR #28 PP SH PVC
9807 0601000	305 MT	17.690 KG	CHROME	C	5 PR #28 PP SH PVC
9807 060500	152 MT	8.845 KG	CHROME		5 PR #28 PP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.