

Part Number: 9812

RS232/422 Low Cap, #28-12pr, PO, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 28 AWG stranded (7x36) tinned copper conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
28	7x36	TC - Tinned Copper	12

Conductor Count:	24
Conductor Size:	28 AWG

Insulation

Element	Material	Nominal Wall Thickness
18	PP - Polypropylene	0.009 in
18		

Color 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

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	28	7x36 mm
Braid	2	TC - Tinned Copper		90 %			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.319 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
64.9 Ohm/1000ft	2.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
15.5 pF/ft	27.5 pF/ft

Inductance

Nominal Inductance
0.19 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66 %

Current

Max. Recommended Current [A]
0.65 Amps per conductor @ 25°C A

Voltage

UL Description	UL Voltage Rating
UL AWM Style 2960	30 V RMS (UL AWM Style 2960)
CL2	150 V RMS (CL2)

Temperature Range

UL Temp Rating:	60°C (UL AWM Style 2960)
Operating Temp Range:	-20°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	58 lbs/1000ft
Max Recommended Pulling Tension:	105 lbs
Min Bend Radius/Minor Axis:	3.25 in

Standards

NEC/(UL) Specification:	CL2
UL AWM Style:	2960 (30 V 60°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 2960)

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
9812 060100	Chrome	
9812 0601000	Chrome	C
9812 060500	Chrome	C

Footnote:	C - CRATE REEL PUT-UP.

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