Belden

Product: 9506

RS232, #24-6pr, SR-PVC, O/A Foil, PVC Jkt, CMG, 75Ω

Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, 6 twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire (continued), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	RS-232 Applications; Computer Communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, …); Line Level Audio; Panel Wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	6	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	SR-PVC - Polyvinyl Chloride (Semi-Rigid)	0.011 in (0.28 mm)	0.044 in (1.1 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.032 in (0.81 mm)	0.289 in (7.34 mm)

Overall Cable Diameter (Nominal):	0.289 in (7.34 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Velocity of Prop.	Max. Current
Pair(s)	28.8 Ohm/1000ft	30 pF/ft (98 pF/m)	50 pF/ft (160 pF/m)	60%	1.96 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	16.19 Ohm/1000ft (53.12 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMG), 300 V (UL AWM 2464)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-30°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
2.9 in (74 mm)	2.9 in (74 mm)

Max. Pull Tension:	72 lbs (33 kg)
Bulk Cable Weight:	44 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	AWM 2464, AWM I/II A
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	82506

History

Update and Revision:	Revision Number: 0.476 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
9506.0030	Chrome	Reel	30 m	8719605021359	
9506 060100	Chrome	Reel	100 ft	612825254386	
9506.00U152	Chrome	UnReel	152 m	8719605021373	
9506.01152	Chrome	Reel	152 m	8719605021397	
9506.00305	Chrome	Reel	305 m	8719605021366	
9506.00U305	Chrome	UnReel	305 m	8719605021380	
9506.K0305	Chrome	Reel	305 m	8719605021403	
9506 060500	Chrome	Reel	500 ft	612825254409	C
9506 060U500	Chrome	UnReel	500 ft	612825254379	
9506 0601000	Chrome	Reel	1,000 ft	612825254393	C
9506 060U1000	Chrome	UnReel	1,000 ft	612825254362	
9506 0605000	Chrome	Reel	5,000 ft	612825254416	C

Footnote:	C - CRATE REEL PUT-UP.

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