



Product: [9538ELV](#) 

Life Cycle Status: Capability

RS232, #24-8c, LSZH / FRNC, O/A Foil, FRNC/LSZH Jkt, B2ca

Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, FRNC insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH jacket, B2ca

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
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	24	7x32	TC - Tinned Copper	8

Conductor Count: 8

Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Conductor(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.25 mm	0.05 mm

Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow

Outer Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	AWG24/7

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.60 mm	1.10 mm

Construction and Dimensions

Cabling

Description
8 wires twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
82 ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
100 pF/m	190 pF/m

Impedance

Frequency [MHz]
N/A

Current

Max. Recommended Current [A]
1.5 Amps per Conductor at 25°C

Temperature Range

Installation Temperature Range:	-20°C to +70°C
Storage Temperature Range:	-30°C To +70°C
Operating Temperature Range:	-20°C to +70°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Maximum Recommended Pulling Tension:	100 N
Minimum Bend Radius During Installation:	66 mm

Standards

CPR Euroclass:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor - Euroclass B2ca
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Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes - UL 1581 sec 1200 Black Only

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 3km for the first order. This product will have Chrome as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 9538NH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.The estimated production lead time for the first order will be similar to the production lead time of 9536NH. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.2 Revision Date: 09-29-2026
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