

Product: 9536ELW

RS-232, 6C #24 Str TC, PO ins, OS, LSZH Jkt, 300V, Cca

Product Description

24 AWG stranded (7x32) tinned copper conductors, 6 conductors cabled, PE insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH jacket, Flame resistance IEC 60332-1-2, Cca

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For EIA RS-232 data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
24	7x32	TC - Tinned Copper	6

Conductor Count:	6

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	1.12 mm	0.05 mm

Color Chart

Number	Color
Wire 1	Black
Wire 2	White
Wire 3	Red
Wire 4	Green
Wire 5	Brown
Wire 6	Blue

Outer Shield

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	9 / 12 µm	TC - Tinned Copper	AWG24/7

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.6 mm	1.3 mm

Construction and Dimensions

Cabling

Description	Filler
1 center filler and 6 wires twisted to cable core	Cotton (White)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR

82 Ohm/km	59.1 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
108.3 pF/m	213.3 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
N/A	75 Ohm

Current

Element	Max. Recommended Current [A]
Conductor(s)	1.75 Amps per Conductor

Voltage

Voltage Rating [V]
300 V

Temperature Range

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

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	150 N
Min. Bend Radius During Installation:	64 mm

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, 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%

Related Part Numbers

Variants

Item #
9536ELW.00500

History

Update and Revision:	Revision Number: 0.39 Revision Date: 02-03-2025

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