



**Product:** [1505ENF](#)

1505ENF - 75 Ohm SDI Coax, RG-59, 22 AWG Str BC, 95% TC Braid + Foil, LSZH Jkt, Flexible

### Product Description

75 Ohm SDI Coax, RG-59, 22 AWG (7x29) Bare Copper Conductor, PE Insulation, 95% Tinned Copper Braid + Foil Shield, LSZH Jacket, Flexible.

### Technical Specifications

#### Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use
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#### Construction Details

##### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	7x29	0.81 mm	BC - Bare Copper

##### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	3.68 mm (0.145 in)

##### Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Tinned Copper (TC)	95%
2	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
3	Braid	Tinned Copper (TC)	95%

##### Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0

#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	1 dB/100m
3.6 MHz	2 dB/100m
10 MHz	3 dB/100m
71.5 MHz	6.9 dB/100m
135 MHz	8.9 dB/100m
270 MHz	12.5 dB/100m
360 MHz	14.4 dB/100m
540 MHz	18.1 dB/100m

720 MHz	21.0 dB/100m
750 MHz	21.3 dB/100m
1000 MHz	24.9 dB/100m
1500 MHz	31.2 dB/100m
2250 MHz	39.0 dB/100m
3000 MHz	45.9 dB/100m
4500 MHz	57.4 dB/100m
6000 MHz	69.2 dB/100m

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
32 Ohm/km	12 Ohm/km (3.7 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	83%

#### Mechanical Characteristics

##### Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

##### Bend Radius

Stationary Min.
60 mm (2.4 in)

Max. Pull Tension:	200 N (45 lbf)
Bulk Cable Weight:	58 kg/km

#### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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
UK Regulation Compliance:	UKCA Mark

#### History

Update and Revision:	Revision Number: 0.75 Revision Date: 05-31-2024
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#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	EAN
1505ENF.00500	Black	Reel	500 m	8719605155634

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