



Product: [MRG5900](#)

MRG5900 - Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid BCCS, 95% BC Braid, PVC Jkt, Commercial

Product Description

Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, Commercial

Technical Specifications

Product Overview

Suitable Applications:	Standard analog video
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Construction Details

RG Type:	59
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	23 AWG	Solid	0.58 mm	BCCS - Bare Copper Covered Steel

Table Notes:	Conductivity 40%
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Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	3.7 mm (0.15 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	85%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.1 mm

Table Notes:	According to EN 50290-2-20
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Electrical Characteristics

Regularity of Impedance:	Min. 40 dB
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Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Attenuation

Frequency	Nom. Attenuation
5 MHz	2.9 dB/100m
50 MHz	8 dB/100m
100 MHz	11.6 dB/100m
230 MHz	18.3 dB/100m

300 MHz	21.2 dB/100m
400 MHz	25 dB/100m
470 MHz	27.5 dB/100m
860 MHz	39.2 dB/100m
1000 MHz	42.9 dB/100m
1350 MHz	50 dB/100m
1600 MHz	54.5 dB/100m
1750 MHz	57 dB/100m
2150 MHz	63 dB/100m

Table Notes:	Max. attenuation 10% higher
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Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
170 Ohm/km (52 Ohm/1000ft)	67 pF/m (20 pF/ft)	75 Ohm	66%

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-15°C To +70°C	-5°C To +50°C	-15°C To +70°C

Bend Radius

Stationary Min.
35 mm (1.4 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
ISO/IEC Compliance:	IEC 61196
CENELEC Compliance:	EN 50117-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.205 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG5900.10100	Black	Reel	100 m	8719605103338
MRG5900.00500	Black	Reel	500 m	8719605103284
MRG5900.03500	Black	Reel	500 m	8719605103321
MRG5900.11100	White	Reel	100 m	8719605103345

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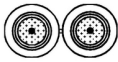
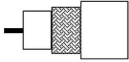
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Product: [MRG5901](#)



MRG5900 - Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid BCCS, 95% BC Braid, PVC Jkt, Commercial, Twin-coax

Product Description

Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, Commercial, Twin-coax

Technical Specifications

Product Overview

Suitable Applications:	Standard analog video
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Construction Details

RG Type:	59
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
2	23 AWG	Solid	0.58 mm	BCCS - Bare Copper Covered Steel

Table Notes:	Conductivity 40%
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Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene	3.7 mm (0.15 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	91%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.25 mm

Table Notes:	Shotgun construction, width 12.5 mm (0.4921 in)
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Electrical Characteristics

Regularity of Impedance:	Min. 40 dB
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Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Attenuation

Frequency	Nom. Attenuation
5 MHz	2.9 dB/100m
50 MHz	8 dB/100m
100 MHz	11.6 dB/100m
230 MHz	18.3 dB/100m

300 MHz	21.2 dB/100m
400 MHz	25 dB/100m
470 MHz	27.5 dB/100m
860 MHz	39.2 dB/100m
1000 MHz	42.9 dB/100m
1350 MHz	50 dB/100m
1600 MHz	54.5 dB/100m
1750 MHz	57 dB/100m
2150 MHz	63 dB/100m

Table Notes:	Max. attenuation 10% higher
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Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
170 Ohm/km (52 Ohm/1000ft)	67 pF/m (20 pF/ft)	75 Ohm	66%

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-15°C To +70°C	-5°C To +50°C	-15°C To +70°C

Bend Radius

Stationary Min.
35 mm (1.4 in)

Bulk Cable Weight:	100 kg/km
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Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61196
CENELEC Compliance:	EN 50117-1
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.202 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG5901.00100	Black	Reel	100 m	8719605103352

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Product: [MRG5902](#)

MRG5900 - Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid BCCS, 95% BC Braid, LSZH Jkt, Commercial

Product Description

Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, LSZH Jacket, Commercial

Technical Specifications

Product Overview

Suitable Applications:	Standard analog video
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Construction Details

RG Type:	59
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	23 AWG	Solid	0.58 mm	BCCS - Bare Copper Covered Steel

Table Notes:	Conductivity 40%
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Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	3.7 mm (0.15 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	91%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.15 mm

Table Notes:	According to EN 50290-2-20
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Electrical Characteristics

Regularity of Impedance:	Min. 40 dB
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Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Attenuation

Frequency	Nom. Attenuation
5 MHz	2.9 dB/100m
50 MHz	8 dB/100m
100 MHz	11.6 dB/100m
230 MHz	18.3 dB/100m

300 MHz	21.2 dB/100m
400 MHz	25 dB/100m
470 MHz	27.5 dB/100m
860 MHz	39.2 dB/100m
1000 MHz	42.9 dB/100m
1350 MHz	50 dB/100m
1600 MHz	54.5 dB/100m
1750 MHz	57 dB/100m
2150 MHz	63 dB/100m

Table Notes:	Max. attenuation 10% higher
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Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
170 Ohm/km (52 Ohm/1000ft)	67 pF/m (20 pF/ft)	75 Ohm	66%

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.
35 mm (1.4 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
ISO/IEC Compliance:	IEC 61196, 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
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.205 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG5902.10100	Black	Reel	100 m	8719605103390
MRG5902.00500	Black	Reel	500 m	8719605103383

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Product: [83264](#)

Mil-Spec Coax, 75 Ohm, RG-179, 30 AWG Str SCCS, 95% SC Braid, FEP Jkt, Commercial Non-QPL

Product Description

Mil-Spec Coax, 75 Ohm, RG-179, 30 AWG (7x38) Silvered Copper Covered Steel Conductor, PTFE Insulation, 95% Silvered Copper Braid Shield, FEP Jacket, Commercial, non-QPL

Technical Specifications

Product Overview

Suitable Applications:	Aerospace, analog video
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Construction Details

RG Type:	179
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Conductor

Size	Stranding	Nom. Diameter	Material
30 AWG	7x38	0.012 in	SCCS - Silvered Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.063 in (1.6 mm)	White

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Silvered Copper (SC)	95%

Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.100 in (2.54 mm)

Overall Cable Diameter (Nominal):	0.100 in (2.54 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	3.0 dB/100ft
10 MHz	5.3 dB/100ft
50 MHz	8.5 dB/100ft
100 MHz	10.0 dB/100ft
200 MHz	12.5 dB/100ft
400 MHz	16.0 dB/100ft
700 MHz	19.7 dB/100ft
900 MHz	22.3 dB/100ft
1000 MHz	24.0 dB/100ft

Power Rating

Frequency	Max. Power Rating
50 MHz	1,250 W

100 MHz	865 W
200 MHz	599 W
400 MHz	415 W
700 MHz	308 W
900 MHz	270 W
1,000 MHz	255 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
232 Ohm/1000ft (761 Ohm/km)	8.5 Ohm/1000ft (28 Ohm/km)	19.5 pF/ft (64.0 pF/m)	75 Ohm	70%

Voltage

Voltage Rating
900 V (Mil-Spec)

Mechanical Characteristics

Temperature

Operating
-70°C to +200°C

Bend Radius

Installation Min.
1 in (25 mm)

Max. Pull Tension:	17 lbs (7.7 kg)
Bulk Cable Weight:	10 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Military Compliance:	Commercial, non-QPL product (M17/94-RG179)
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.504 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83264 001100	Brown	Reel	100 ft	612825203667	E
83264 001500	Brown	Reel	500 ft	612825203681	E
83264 0011000	Brown	Reel	1,000 ft	612825203674	C E

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