

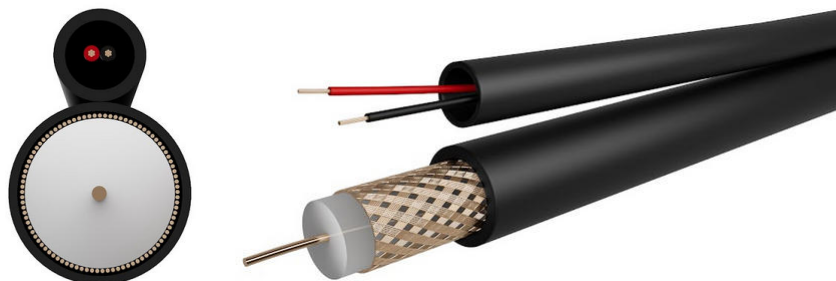


Technical Specification

Cable Type: RG-59 (CCA 90%) + 2x(16x0.2mm) Control Wires (FIG-8) Outdoor Cable

Part Number: WRGD592W

Revision: 05/25 Date: 13-Feb-2025



Picture is for reference only and may vary in reality

This cable is constructed of an RG-59 cable with 90% CCA Braid + 2x16/0.2mm PVC insulated stranded CCA wires for power and control. Wires are colored red and black. Jacketed in parallel FIG-8 formation ("Siamese") with black PVC compound for outdoor use.

Physical Properties

RG-59 Cable

Inner Conductor	Solid bare copper covered steel (CCS), 0.61±0.02 mm OD., 24% Conductivity
Dielectric	Solid PE, 3.70±0.2 mm OD
Outer Conductor	Single braid, 90% min. coverage, bare copper-clad aluminum wires (CCA), 24% Conductivity
Outer Jacket	Black UV-Resistant PVC compound for outdoor use.
Overall Diameter	6.0±0.20 mm.
Surface Marking	WESTERN WIRE WRGD592W RG59 + 2x16/0.2mm FIG-8 OUTDOOR CABLE CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [SMM] METER

Power wires

Conductors	Stranded, 16x0.2mm bare copper-clad aluminum wires (0.5 mm ²)
Insulation	PVC
Total number of wires	2
Color code	Red, Black
Jacket	Black PVC compound
Surface marking	None.

Notes: The two elements are jacketed in parallel in a FIG-8 ("Siamese") formation. The two parts shall hold firmly together yet they will be easy to separate without cutting tools.

During separation of the two elements the only torn part will be the connecting web. No visible damage nor holes shall be caused to any of the two jacket parts.

Mechanical Properties

Minimum bend radius	150 mm
Storage temperature	-20 to +60°C
Operating temperature	-20 to +60°C
Total weight	90 kg/km nom.

Electrical & Transmission Properties @ 20°C

Property

Characteristic Impedance
Capacitance (conductor to shield)
Velocity of propagation
Return loss (RL)
DC Resistance of inner conductor
Continuous working voltage
Dielectric strength (conductor to shield)
Jacket spark-test
Jacket dielectric test after cold bend

Coaxial Cable

75±3 Ω (TDR)
69±3 pF/m @ 1 kHz
66% nom.
18 dB min. @ 5 to 1000 MHz
247 Ω/km max.
1.7kV rms max.
7 kV rms min.
5 kV rms min.
5 kV rms min.

Power & Control Wires

NA
NA
50%
NA
54 Ω/km max.
60V
1kv rms min.
NA
NA

Attenuation

Frequency MHz	Nom. Attenuation dB/100m (±15%)	Frequency MHz	Nom. Attenuation dB/100m
50	10.1	700	37.90
200	18.80	900	43.2
400	27.2	1000	46.1

Note: All attenuation values are nominal calculated values.

Ordering information

Cable PN

WRGD592W-100
WRGD592W-200
WRGD592W-300
WRGD592W-500

Cable length

100 meters
200 meters
300 meters
500 meters

Packaging

Coil
Coil
Wooden drum
Wooden drum

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)