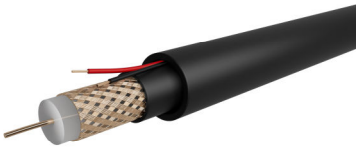
Technical Specification
Cable Type: RG-59 (CCA 90%) + 2x(16x0.2mm) Control Wires (NYY) Outdoor Cable
Part Number: WRGE592W
Revision: 04/24 Date: 12 August 2024



The 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. Overall jacketed 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 PVC compound
Overall Diameter	6.0±0.20 mm.
Surface Marking	None.

Power wires

Conductors	Stranded, 16x0.2mm bare copper-clad aluminum wires (0.5 mm²)
Insulation	PVC
Total number of wires	2
Color code	Red, Black
Jacket	Black PVC compound
Surface marking	None.

Overall jacket

Overall jacket	Black UV-Resistant PVC compound for outdoor use.
Overall Diameter	9.5±0.3 mm.
Surface Marking	WESTERN WIRE WRGE592W RG59 + 2x16/0.2mm NYY OUTDOOR CABLE CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [SMM] METER

Notes: The two elements are jacketed together under an overall jacket.
The jacket is easily removable

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	Coaxial Cable	Power & Control Wires
Characteristic Impedance	75±3 Ω (TDR)	NA
Capacitance (conductor to shield)	69±3 pF/m @ 1 kHz	NA
Velocity of propagation	66% nom.	50%
Return loss (RL)	18 dB min. @ 5 to 1000 MHz	NA
DC Resistance of inner conductor	247 Ω/km max.	54 Ω/km max.
Continuous working voltage	1.7kV rms max.	60V
Dielectric strength (conductor to shield)	7 kV rms min.	1kv rms min.
Jacket spark-test	5 kV rms min.	NA
Jacket dielectric test after cold bend	5 kV rms min.	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	Cable length	Packaging
WRGE592W-100	100 meters	Coil
WRGE592W-200	200 meters	Coil
WRGE592W-300	300 meters	Wooden drum
WRGE592W-500	500 meters	Wooden drum

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