

Coaxial Cable

Technical Specification

- Cable Type: Type RG-6 Tri-Shield (70%) 18# PVC 75 Ω Indoor
- Western Wire Part Number: WTV06H20
- Revision: 21/25
- Date: 27 November 2025



Physical Description	
Inner Conductor	Solid copper covered steel (CCS), 1.02±0.008 mm (18 AWG). 21% conductivity,
Dielectric type	Foam PE, 4.57±0.05 mm OD.
Dielectric thickness	1.65 mm nom. 1.55 mm min.
Outer Conductor	Triple shield: Foil/Braid/Foil
Inner foil	Bonded Aluminum/PP/Aluminum foil, 100% coverage, 4.77 mm nom. OD
Braid	Aluminum Alloy Braid, 70% coverage, 5.38 mm nom. OD.
Outer foil	Aluminum/PET/Aluminum foil, 100% coverage, 5.48 mm nom. OD.
Outer jacket	FR-PVC compound, White
Cable OD.	7.06 ±0.2 mm
Surface Marking	WESTERN WIRE WTV06H20 CATV RG-6 18 AWG 75 OHM TRI-SHIELD COAXIAL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER

Mechanical Properties	
Minimum Bend Radius	20 x D
Storage temperature	-20 to +60°C
Operating temperature	-20 to +80°C
Center conductor elongation	1% min.
Center conductor tensile strength	550 N/mm ² min.
Flame test	IEC 60332-1
Cable nom. weight	45 kg/km

Electrical Properties @ 20°C	
Characteristic impedance	75±3 Ohm
DC Resistance of inner conductor	110 Ohm/km max.
Capacitance (conductor to shield)	54±3 pF/m max. @ 1kHz
Velocity of propagation	83% nom. @ 1 kHz
Insulation resistance	1000 Mohm*km min.
Return loss (RL)	22 dB min. @ 5 - 450 MHz
Return loss (RL)	20 dB min. @ 450 - 3000 MHz

Attenuation	
Frequency MHz	dB/100m nom.
55	5.25
187	9.35
400	13.0
865	20.1
1000	21.49

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