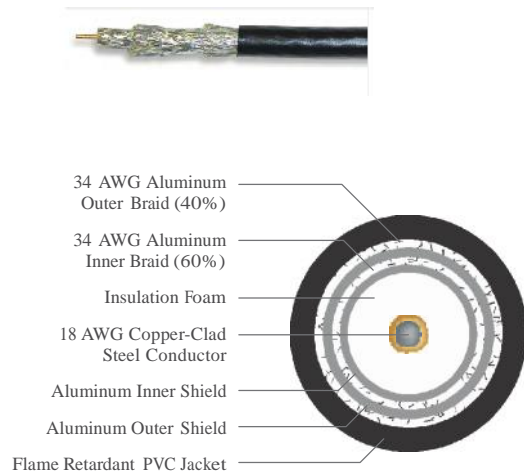


Coax rG-6, Quad Shield

CM/CATV, CMR/CATVR, CMP/CL2P, Interlock Armored CMR



Product Description

Grupo Matel RG-6, Quad Shield coaxial cables are designed to support technologies such as extended bandwidth satellite service, high definition TV signals, CATV and two-way cable modems. Grupo Matel maintains tight tolerances to cable diameter requirements of leading connector manufacturers. Also available as interlock armored coax.

Applications

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

Features

- RG-6, Quad Shield Coaxial cable with bandwidth that exceeds 3 GHz
- Tight foamed polyethylene (CM and CMR) or fluoropolymer (CMP) insulating skin bonds around center conductor
- Black and white jacket colors available for CM and CMR versions
- Interlock armored version

Benefits

- “Future-proofing” the installation. Supports extended bandwidth satellite service and high-definition TV signals
- Exhibits better transmission characteristics
- Helps differentiate incoming service versus internal cabling infrastructure
- Provides additional mechanical and fire safety protection

Specifications

Conductor	Copper clad steel
AWG (mm)	18 (1.02)
Inner Shield	CM/CMR: 2.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Inner Braid	34 AWG aluminum (60%)
Outer Shield	CM/CMR: 1.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Outer Braid	34 AWG aluminum (40%)
Insulation	CM/CMR: Polyethylene CMP: Foamed fluoropolymer
Jacket	PVC (polyvinyl chloride)
Nominal Impedance (Ohms)	75
Nominal Velocity of Propagation (%)	CM/CMR: 85 CMP: 83
Performance Compliance	UL 1569 UL 13 UL 444 CSA C22.2 No. 214-08 UL 1685 UL 1666 NFPA 262 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CM UL, c(UL) Listed CMR UL, c(UL) Listed CMP

Part Numbers and Physical Characteristics

Listing	Part Number	Component Jacket Color	Nominal Diameter			Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
			Overall in (mm)	Dielectric in (mm)	Shield in (mm)			
CM/CATV	178-147-911	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	179-147-911	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	178-147-9P1	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP™ box	20
CM/CATV	179-147-9P1	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP box	20
CMR/CATVR	178-148-911	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMR/CATVR	179-148-911	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMP/CL2P	178-14C-911	White	0.26 (6.7)	0.17 (4.3)	0.23 (5.9)	30 (45)	1,000' Plywood reel	25
Aluminum Interlock Armored (no outer jacket)								
CMR	1KC-919-451	White	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1
CMR	1KC-919-E51	Black	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1

Electrical Specifications

Frequency MHz	CM/CATV and CMR/CATVR Attenuation Maximum		CM/CATV and CMR/CATVR SRL, Typical dB	
	Specification dB/100 ft (dB/100 m)	Typical dB/100 ft (dB/100 m)		
55	1.6 (5.3)	1.3 (4.8)	20	C M P / C L 2 P
211	3.1 (10.1)	2.7 (9.0)	20	
270	3.5 (11.5)	3.1 (10.3)	20	
300	3.7 (12.1)	3.4 (11.0)	20	
330	3.9 (12.8)	3.6 (11.7)	20	
400	4.3 (14.1)	4.0 (13.1)	20	
450	4.6 (15.0)	4.1 (13.6)	20	
550	5.1 (16.7)	4.7 (15.3)	20	
750	6.0 (19.7)	5.2 (17.1)	20	
870	6.5 (21.3)	6.0 (19.7)	20	
1000	7.0 (23.0)	6.5 (21.2)	20	
1200		7.2 (23.7)	18	
1450		8.0 (26.1)	18	
1800		8.8 (29.0)	18	
2200		9.8 (32.1)	18	
2600		10.7 (35.2)	15	
3000		11.7 (38.3)	15	
				S R L . N o m i n a l d B
Frequency MHz	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)			
1	0.3 (1.0)	20		
10	0.7 (2.3)	20		
50	1.5 (4.9)	20		
100	2.1 (6.9)	20		
200	3.1 (10.2)	20		
500	5.0 (16.4)	20		
700	6.4 (21.0)	20		
1000	7.3 (23.9)	20		
2300	12.2 (40.0)	20		
3000	14.3 (46.9)	20		