



## Product Description

Grupo Matel offers multiple configurations of Residential Broadband riser-rated (CMR) composite cables to support the three common drop configurations used in residential structured wiring installations. These composite cables improve installation time and reduce the chance of violating minimum bend radius of the cable. The individual components support many technologies, including extended bandwidth satellite service, 1000BASE-T and 100BASE-TX Ethernet and high-definition TV signals. This product is also available with a 62.5 μm duplex multimode fiber.

## Applications

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) – IEEE 802.3af
- PoE+ – IEEE 802.3at Type 1 and 2
- ATM and token ring
- HDTV, CATV, CCTV and DBS

## Features

- All-in-one cable design
- RG-6 Quad Shield coaxial cable with typical bandwidth that exceeds 3 GHz
- Multiple constructions available
- TeraGain® multimode optical fiber (optional)

## Benefits

- Reduces installation time, provides additional protection to the individual cables
- “Future-Proofing” the installation. Supports extended bandwidth satellite service and high-definition TV signals
- Customized flexibility for the application
- Integrated fiber reduces the need to install separate cables for home interior optical networks

## Specifications

CAT 6 UTP Component	Pair Count: 4 Conductor: Solid annealed copper AWG (mm): 23 (0.57) Insulation: Thermoplastic Jacket: Flame retardant PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	70
Fiber Component	62.5/125 μm duplex, 5 mm round, 900 μm tight buffered
Coax RG-6 Quad Shield Component	Conductor: Copper clad steel AWG (mm): 18 (1.02) Insulation: Polyethylene Inner Shield: 2.8 mil aluminum foil Inner Braid: 34 AWG aluminum (60%) Outer Shield: 1.8 mil aluminum foil Outer Braid: 34 AWG aluminum (40%) Jacket: PVC Electrical: See "Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/CL2P, Interlock Armored CMR" on page A-75
Overall Jacket	Orange, flame retardant PVC UL 444 CSA C22.2 No. 214-08 UL 1666
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-83-596-2001 Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMR

## Part Numbers and Physical Characteristics

Part Number	Description	Nominal Diameter in (mm)	Approx. Weight lbs/ft (kg/km)	Standard Length ft (m)	Package	Packages per Pallet
172-512-01	1 RG-6 Quad x 1 CAT 6	0.37 x 0.54 (9.27 x 13.59)	70 (104)	1,000 (305)	Plywood reel	4
172-621-03	2 RG-6 Quad x 2 CAT 6	0.62 x 0.54 (15.7 x 13.5)	130 (193)	500 (152)	Plywood reel	4
17A-621-03	2 RG-6 Quad x 2 CAT 6 x 1 Duplex 62.5/125 MMF	0.62 x 0.54 (15.7 x 13.6)	144 (214)	500 (152)	Plywood reel	4