U/UTP-CAT6 Outdoor LAN Cable Part Number: PROCAT6GELXV2

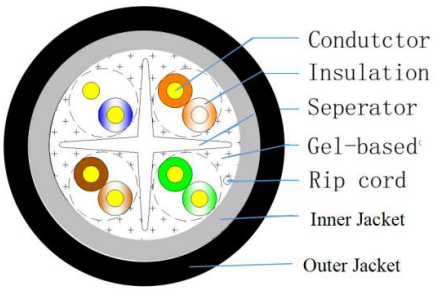
Application

Category 6 U/UTP Cable, 23AWG, PVC+PE sheath, 4 pairs. Category 6 cable is the ultimate solution for a future proof network. It is specifically designed to support the exacting requirements for tomorrow's protocols, yet is fully backwards compatible with today's needs. Cable shall be ANSI/TIA-568.2-D and IEC 61156.

- 10BASE-T Ethernet
- 100BASE-T Fast Ethernet
- 1000BASE-T Gigabit Ethernet

Construction

Conductor Material	Solid Bare Copper
Conductor Diameter (mm)	23AWG / 0.565 +/- 0.01
Insulation Material	HDPE
Insulation Diameter (mm)	1.04 +/- 0.1
Rip cord	210D
Waterproof	Jelly compound
Separator	Yes
Inner Sheath Material	PVC
Inner Jacket Thickness (mm)	0.55 +/- 0.1
Inner Diameter Over Jacket (mm)	6.4 +/- 0.3
Outer Sheath Material	PE
Outer Jacket Thickness (mm)	0.55 +/- 0.1
Outer Diameter Over Jacket (mm)	7.5 +/- 0.3



Electrical Properties

Conductor Resistance (20 C)	<= 9.0 Ohm/100m
Electrical Resistance Unbalance (20 C)	<= 2.0%

Electrical Properties

Insulation Resistance	> 5000 MOhm.km
Pair to Ground Capacitance Unbalance (0.8 kHz or 1 kHz)	<= 160 pF/100m
Nominal Velocity of Propagation (NVP)	69 %
Skew	45 ns/100m
Operating Frequency, maximum	250 MHz

Transmission Properties

The cable passes Fluke test: 100 m Channel test and 90 m Permanent Link test.

Mechanical Requirements

Pulling Tension, maximum	100 N
Minimum Laying Operation Bending Radius	8 times the outer cable diameter

Environmental Requirements

Operating Temperature, range	-20 C to +60 C
Storage Temperature, range	-10 C to +50 C
Installation Temperature, range	-5 C to +40 C

Compliance

All materials comply with 2011/65/EU (RoHS 2.0).