

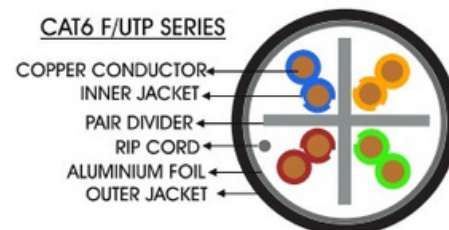
## CAT 6 F / UTP 23AWG LAN CABLE-3902

## CONTENT OF DATASHEET

**Standards :** ANSI/TIA/568.2-D CENELEC EN 50288-5 IEC 61156-5 (ISO/IEC-11801 2 Class-E)

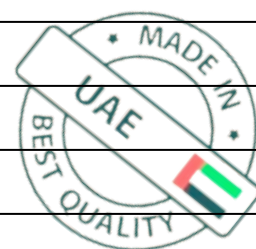
Opternet cables are the best twisted-pair cables in the market for transmitting data over local area networks (LANs). As streaming videos and multimedia over LAN are gaining popularity, users demand faster data transmission and reduce waiting time. Opternet cables are ideal for simple, cost effective and high speed transmission performance. They support a higher signal-to-noise ratio, providing better reliability for current applications and higher data rates for future applications.

Opternet cat6 23awg 4 twisted pair F/UTP Network Cable 305m are Manufactured Tested and Complied with IEC 60332-1-2 EN 50173-1:2011 ISO/IEC11801:2011(Ed. 2.2) ANSI/TIA/EIA-568.2-D IEC61935- 2:2010(Ed.3.0) EN 50173-2:2007 including Amendment A1:2010 Requirements for Patch Cord Assemblies and Provide High Performance levels for structured cabling systems.



## PHYSICAL AND MECHANICAL PROPERTIES

Basic Conductor	Solid bare annealed copper
Conductor Size	23AWG /0.56
Insulation	HDPE
Number of insulated conductors	8, twisted in 4 pairs
Color Code of Pairs	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown
Overall Screening	Polyester-aluminum tape(foil face inward) providing 100% coverage.
Outer Jacket	Heavy-duty, UV-resistant PE compound for outdoor use.
Standard Jacket Color	Black
Standard Surface Marking	Includes Opternet P/N, cable description, Meter mark and Model Number
Pulling force	100 N max.
Short Term Bend Radius	6xOD (mm)
Storage Temperature	-20 to +80C
Temperature operating range	-20 to +60C
Installation Temperature range	0 to +50C



## ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm@ 1-100 MHz	Dielectric strength	1500 Volts/1 minute min rms
DC Resistance	93 Ohm/Km max.	Velocity of Propagation (NVP)	67-69%
Resistance unbalance	2% max.	Propagation Delay	534 + 36/vf. nS/100m max@ 1-300 MHz
Mutual Capacitance	5.6 nF/100m Max. @ 1 KHz	Propagation Delay Skew	45 nS/100m max@ 1-300 MHz
Cap. Unbalance (wire to ground)	1500 pF/m max.@ 1 KHz.	Insulation Resistance	5000 MegaOhm•Km min.@ 500 Vdc
Voltage rating	72 Vdc max.	Coupling attenuation	40 dB min@ 30-100 MHz 85-20Log(f/100) @100-250 MHz
Transfer Impedance	10 mOhm/m max@ 1-10 MHz 30 mOhm/m max@ 30 MHz		