

## The World's Most Durable Ethernet Cables



Dependable, highest quality ProPlex Ethernet cables - From the Super Bowl Half-Time Show, to the Academy Awards, to a rock concert near you, the industry standard for entertainment and live event networks.

Originally developed for the demanding professional live event market, ProPlex Ethernet Cables have since been proven in indoor, outdoor, and temporary underwater applications of all kinds. In addition to entertainment use, they are now trusted for the connection of many different portable networks, including; industrial, scientific, military, marine, communications, and more. The original roadworthy, dependable, verified Ethernet cables, they combine unsurpassed critical data integrity with outstanding durability, long-term reliability and optimum handling characteristics – all proven over many years of professional portable use, over five million meters of cable sold, and over millions of touring miles traveled.

Premium ProPlex CAT5e 26AWG SF/UTP offers outstanding, fully verified Gigabit performance, extreme noise resistance and practically zero skew. Other superior performance benefits include:

- Full CAT5e performance and data integrity, verified up to 10m
- Minimal transmission degradation, even after years of heavy use and abuse
- Kevlar reinforced, stranded conductors for long-term portable reliability
- Tear and cut-proof UV-resistant outer jacket
- Excellent DC resistance. Low attenuation. Low N.E.X.T. (Near-end crosstalk loss).
- High tensile strength. Extreme durability. Easy handling and coiling.

**RoHS**  
Compliant

General Specifications	
Part Number	PCCAT5EP26AWG
Conductors	26/7 AWG 7x0.16 mm stranded bare copper
Insulation	PO (Polyolefin compound). Nom. Dia. 0.035" [0.9 mm]
Color Code	White/Blue X Blue; White/Orange X Orange; White/ Green X Green; White/Brown X Brown.
Assembly	Pairs cabled with Kevlar strength members and separation tape wrapped.
Shields	Inner: Aluminum-polyester tape 115% coverage. Outer: Tinned copper braid, coverage 80% nom.
Jacket	Black, PU compound
Marking	ProPlex PCCAT5EP26AWG Shielded 100 MHz CAT5e Patch Cable [lot/mtrs]
Weight	38.5 lbs. / mft [57 Kg/Km]
Outside Diameter	0.27" [6.9 mm] +/- 0.012" [0.3 mm]
Minimum Bend Radius	30 mm
Temperature Rating	Operational: -35° to +70°C
Compliance	IEC 60332-1, IEC 61156, ISO/IEC 11801, RoHS 2002/95/EC, IEC 61034, EN 50173, EN 60754-2, EN 50267-2-3 and TIA/EIA 568A Cat. 5e.

General Information
A 4 pair, 26 AWG, 100 Ohm SF/UTP patch cable, designed to the ISO / IEC 11801 Category 5e requirements. The cable contains 4 twisted pairs, cabled together with Aramid reinforcing members, wrapped with non-woven tape, and overall shielded with copper braid and aluminum foil in SF/UTP structure. The SF/UTP core is jacketed with industrial grade compound jacket.

Electrical Specifications	
Velocity of Propagation	69% nom.
Impedance	100 +/- 15 Ohm 1-100 MHz
Dielectric Strength	700 VAC/min. between conductors 500 VAC/min. conductors to shield
Resistance Unbalance	2% max @ 20 deg. C
Capacitance Unbalance	1.5 pF/m max.
DC Resistance	140 Ohm/Km max.
ACR	57.2 dB @ 10 MHz 54.9 dB @ 16 MHz 42.6 dB @ 62.5 MHz 40.1 dB @ 100 MHz
Typical channel length	35 m (@20° C), when used with certified termination connectors

Transmission Performance				
	10 MHz	16 MHz	62.5 MHz	100 MHz
Attenuation db/10m nom.	0.8	1.1	2.4	2.9
N.E.X.T (Near-End Crosstalk Loss) db min.	58	56	45	43

Reeling Capability
In the core level, under the shields, are 4 conductor pairs and 6 strength members, 3 white and 3 yellow. Two central strength members perform a "tension relief" function. The other 4 are twisted around the pairs, each pair is wrapped in a strength member to perform a "pair structure holding" function. The reason for two types of strength members is that each one has a different prolongation constant – one positive, the other negative – so on average the length of the strength members remains constant and equal to the wire length.
To install on a reel, please use the following guidelines: <ul style="list-style-type: none"> <li>• Minimum reel core diameter is 10 cm.</li> <li>• Minimum tension to be used during reeling and unreeling process.</li> <li>• Terminate the cable with plugs before reeling is initiated.</li> <li>• Cable length per reel is 90 meters or less.</li> </ul>

ProPlex CAT5e 26AWG Ethernet patch cables meet all CAT5e performance specs up to 10m (32 ft)