

General Description

The PDR U/UTP Cat 6 Patch Cord is a 4-pair unshielded twisted pair cable assembly terminated with Cat 6 RJ45 plugs, designed for high-speed Ethernet connectivity in structured cabling installations. The stranded 24 AWG HDPE-insulated conductors provide flexibility for repeated handling and patching, while the moulded PVC strain relief boot protects the connector termination. Available with a PVC or LSZH outer jacket to suit standard and fire-rated installation environments. Rated for operation from –30°C to +50°C and compliant with UL444, UL1581, and UL1666 reference standards.



Key Features

- U/UTP 4-pair construction with stranded 24 AWG (7×0.18 mm) conductors for flexibility and durability
- HDPE insulation for low capacitance and consistent electrical performance across all four pairs
- Cat 6 RJ45 plug termination with moulded PVC strain relief boot, colour-matched to outer jacket
- Outer jacket available in PVC or LSZH — specify at time of order to suit installation requirements
- Jacket outer diameter 5.8 ± 0.20 mm with ripcord for easy stripping during termination
- Pair colour coding: Blue/White, Orange/White, Green/White, Brown/White
- Rated for 100 Base-TX, 1000 Base-T (Gigabit Ethernet), and 1000 Base-TX applications
- Installation temperature –30°C to +50°C; rated temperatures 60°C, 75°C, and 90°C
- Flame rated CM and CMR per UL1666 for riser and plenum installations
- Custom lengths available on request; packed in PE bag and carton (44×26×31 cm)

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

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Technical Specifications

Parameter	Specification
Construction	U/UTP (Unshielded Twisted Pair)
Pair Count	4 pairs
Conductor	Stranded 24 AWG (7×0.18 mm)
Insulation Material	HDPE
Insulation Diameter	0.91 ± 0.01 mm
Pair Colours	Blue/White, Orange/White, Green/White, Brown/White
Cross Filler	Yes
Connector	Cat 6 RJ45 Plug
Strain Relief Boot	Moulded PVC, colour-matched to jacket
Outer Jacket Material	PVC or LSZH (specify at order)
Jacket Thickness	0.6 ± 0.05 mm
Outer Diameter	5.8 ± 0.20 mm
Ripcord	Yes
Rated Temperature	60°C, 75°C, 90°C
Installation Temperature	−30°C to +50°C
Flame Rating	CM, CMR
Reference Standards	UL444, UL1581, UL1666
Insulation Elongation (unaged)	> 300%
Insulation Tensile Strength (unaged)	> 16.8 KPa
Jacket Elongation (unaged)	> 100%
Jacket Tensile Strength (unaged)	> 14.1 KPa
Aged Condition	100°C for 48 hours
Insulation Elongation (aged)	> 75% of unaged value
Jacket Elongation (aged)	> 50% of unaged value
Packing Length	As per customer request
Carton Dimensions	44 × 26 × 31 cm

Applications

- 100 Base-TX and 100 Base-T (100VG-AnyLAN) Fast Ethernet network connections
- 1000 Base-T Gigabit Ethernet structured cabling installations
- 1000 Base-TX high-speed enterprise LAN patch panel deployments
- Data centre patch panel and server rack interconnections requiring flexible, durable patch cords
- Office and campus network horizontal cabling and desk-side patching
- Fire-rated (CMR/LSZH) building riser and plenum installations

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Ordering Information

Standard Package Contents

Item	Quantity
U/UTP Cat 6 Patch Cord (as ordered)	1
Dust Caps (fitted to each RJ45 connector)	2

Configuration Options

Configuration	Options
Cable Jacket	PVC LSZH
Flame Rating	CM CMR
Jacket Colour	Blue Red Yellow Green Grey White Black Custom
Cable Length	0.5 m 1 m 2 m 3 m 5 m 7 m 10 m 15 m 20 m Custom

Order Code Example:

CAT6-UTP-LSZH-CMR-BL-3M

(U/UTP Cat 6, LSZH Jacket, CMR Rated, Blue, 3 m)

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