

General Description

The PDR CPRI Outdoor Waterproof Patch Cord series provides ruggedized, IP-rated fiber optic assemblies designed for deployment in harsh outdoor and industrial environments. Available with ODVA, IP, FX, PDLC, and NSN waterproof connector housings supporting MPO/MTP, LC, or SC ferrules, the assemblies feature a blind-mating design with robust bayonet locking for quick, tool-free field installation. Flat drop or round cable constructions are available in armored and non-armored variants, supporting single-mode (G.652D, G.657A1/A2, G.657B3) and multimode (OM1–OM4) fiber in 2 to 24 core counts. With LSZH, TPU, or PE jacket options and an operating temperature range of -40°C to $+85^{\circ}\text{C}$, the series is suited for base station, RRH/RRU, and industrial outdoor cabling applications.



Water Proof Connectors



IP/FX



ODVA



PDLC



NSN

Key Features

- Waterproof connector housings: ODVA, IP, FX, PDLC, and NSN types with MPO/MTP, LC, or SC ferrules
- IP-rated blind-mating design for quick, tool-free installation in field and outdoor environments
- Robust bayonet locking mechanism for easy, fast, and secure connector mating and retention
- Lightweight, waterproof, dustproof, and corrosion-resistant construction for harsh environments
- Available in flat drop or round cable, armored or non-armored, for flexible routing requirements
- Single mode fiber: G.652D, G.657A1, G.657A2, G.657B3 — multimode: OM1, OM2, OM3, OM4
- Cable jacket options: LSZH, TPU, and PE to suit varied chemical and fire-rating requirements
- Operating temperature range -40°C to $+85^{\circ}\text{C}$ for extreme outdoor deployment
- Custom lengths available from 1 m to 150 m on request

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

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Technical Specifications

Parameter	Specification
Cable Diameter	5.0 mm 7.0 mm 8.0 mm (± 0.3 mm)
Connector Housing Types	ODVA IP FX PDLC NSN
Ferrule / Connector Types	MPO/MTP LC SC
Fiber Mode — Single-Mode	G.652D G.657A1 G.657A2 G.657B3
Fiber Mode — Multimode	OM1 OM2 OM3 OM4
Fiber Count	2 / 4 / 8 / 12 / 24 core
Cable Jacket	LSZH TPU PE
Cable Length	1 – 150 m; custom lengths available
Operating Temperature	-40°C to +85°C
SM Insertion Loss — Typical	≤ 0.30 dB (IEC 61300-3-34)
SM Insertion Loss — Maximum	≤ 0.75 dB (IEC 61300-3-34)
MM Insertion Loss — Typical	≤ 0.50 dB (IEC 61300-3-34)
MM Insertion Loss — Maximum	≤ 0.75 dB (IEC 61300-3-34)
SM Return Loss	≥ 50 dB (PC) ≥ 60 dB (APC) (IEC 61300-3-6)
MM Return Loss	≥ 30 dB (PC) (IEC 61300-3-6)

Applications

- WiMAX and LTE base station fiber backhaul and fronthaul cabling in outdoor environments
- Remote Radio Head (RRH) and Remote Radio Unit (RRU) interconnections in distributed antenna systems
- Industrial outdoor installations in factories, plants, and process control environments
- Harsh environment deployments requiring waterproof, dustproof, and corrosion-resistant terminations
- Military and defense communications infrastructure requiring ruggedized fiber connections
- Telecommunications installations in coastal, humid, or high-moisture outdoor environments

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Ordering Information

Configuration Options

Configuration	Options
Connector Housing	ODVA IP FX PDLC NSN
Ferrule Type	MPO/MTP LC SC
Fiber Mode	SM: G.652D, G.657A1, G.657A2, G.657B3 MM: OM1, OM2, OM3, OM4
Ferrule Polish	PC APC
Fiber Count	2 / 4 / 8 / 12 / 24 core
Cable Diameter	5.0 mm 7.0 mm 8.0 mm
Cable Construction	Flat Drop or Round; Armored or Non-armored
Cable Jacket	LSZH TPU PE
Cable Length	1 – 150 m; custom available

Order Code Example:

CPRI-ODVA-LC-SM-G657A1-APC-4-C-3.0-10M

(ODVA Housing, LC Ferrule, SM G.657A1, APC Polish, 4 Core, Round, 3.0 mm, 10 m)

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