

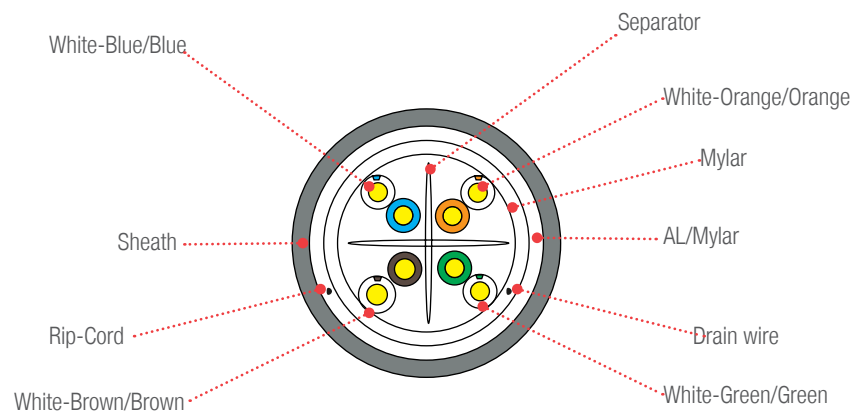
# PowerCat 6 F/UTP Outdoor LDPE Fca Cable

**molex**

**PowerCat 6 F/UTP cable is capable of supporting Category 6 outdoor installations in ducts. The outer jacket is sheathed in a durable black low-density polyethylene (LDPE), sheath providing U.V protection.**

The shielded category 6 cable features an aluminium foil/mylar shield and drain-wire construction with a central separator, for the delivery of 1Gbps performance. The product is supplied on a 500m reel.

## Features and Advantages



Durable UV and moisture resistant LDPE sheath

Capable of 250MHz transmission

Suitable for outdoor installations in ducts

## Applications

- 1GBASE-T
- Outdoor cable runs and inter-building networks in ducts
- Backward compatible with legacy protocols and applications

# PowerCat 6 F/UTP Outdoor LDPE Fca Cable



## Specifications

### REFERENCE INFORMATION

Commercial Standards:

ISO/IEC 11801 Category 6

ANSI/TIA-568-C.2

Environmental Standards:

REACH compliant

RoHS compliant

Reaction to Fire Rating:

Fca

### ELECTRICAL

DC Resistance: 9.38 Ohms/100m max.

Skew ns/100m: <45

Pair to Ground Unbalance: 330 pF/100m maximum

Velocity of Propagation nominal: 70%

DC Resistance Unbalance: 5% maximum

### MECHANICAL

Sheath Tensile Strength after aging:

Elongation percentage: >300

### PHYSICAL

Pair Count: 4

Conductor: Solid Bare Copper

AWG: 23 (0.56mm)

Cable Diameter: 7.4± 0.4mm

Bending Radius (min.): 8 x O.D.

Weight (approx.): 25.5kg 500m reel

Sheath: Low density Polyethylene (LDPE)

Shield: Aluminium Mylar

Operating Temperature: -30°C to +60°C

### ELECTRICAL PERFORMANCE

Frequency MHz	Return Loss > dB	Attenuation >dB	NEXT >dB	Phase Delay >dB	PS NEXT >dB	ELFEXT >dB	PSELFEXT >dB
1	20.00	-	74.30	570.00	72.30	67.80	64.80
4	23.00	3.78	65.30	552.00	63.30	55.80	52.80
8	24.50	5.32	60.80	546.73	58.80	49.70	46.70
10	25.00	5.95	59.30	545.38	57.30	47.80	44.80
16	25.00	7.55	56.20	543.00	54.20	43.70	40.70
20	25.00	8.47	54.80	542.05	52.80	41.80	38.80
25	24.30	9.51	53.30	541.20	51.30	39.80	36.80
31.25	23.60	10.67	51.90	540.44	49.90	37.90	34.90
62.5	21.50	15.38	47.70	538.55	45.40	31.90	28.90
100	20.10	19.80	44.30	537.60	42.30	27.80	24.80
200	18.00	28.98	39.80	536.54	37.80	21.80	18.80
250	17.30	32.85	38.30	536.27	36.30	19.80	16.80

## Ordering Information

Series No.	SAP No	Description
CAA-00431	181750042	PowerCat 6 F/UTP Outdoor LDPE Fca Cable 500m reel

[www.molexces.com](http://www.molexces.com)

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.