

## Features and Benefits

- Compliant to TIA / EIA 568-C.2, Cat 6 and ISO/IEC A1801 Class E cable specification
- Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond
- Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation
- UL listed
- CM rated cable
- Supplied in convenient 305m "Reel in a box"

## Commercial Standards

ISO/IEC 11801:2011 (Ed. 2.2),  
ANSI/TIA-568-C.2:2009

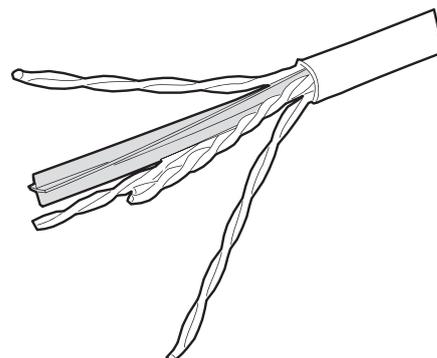
## Technical Information

### Mechanical Characteristics

Conductor: Solid Bare Copper  
 AWG: 23  
 Insulation: PE  
 Filler: PE  
 Jacket: CMP-rated PVC  
 Cable diameter: 6.0mm nominal  
 Weight (kg/km): 14  
 Operating Temperature: 0°C to 70°C

### Electrical/Optical Characteristics

NVP (%): As listed on sheath  
 Delay Skew: 45ns Max  
 Impedance: 100 Ohms  
 Current Rating: 1.5 A Max  
 Conductor DC Resistance: ≤9.38/100m  
 Voltage: 72 Vdc max  
 Propagation delay: 535ns/100m @  
 250MHz  
 Mutual Capacitance: 5.6nF/100m  
 Nominal  
 Insulation Resistance: 500 MΩ Minimum



### Electrical/Optical Characteristics

Frequency	Return Loss	Attenuation	NEXT	ACR	PSNEXT	ELFEXT	PSELFEXT	Delay
1	20.0	2.0	74.3	72.3	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	61.5	63.3	55.8	52.8	552.0
10	25.0	6.0	59.3	53.3	57.3	47.8	44.8	545.4
20	25.0	8.5	54.8	46.3	52.8	41.8	38.8	542.0
31.25	23.6	10.7	51.9	41.2	49.9	37.9	34.9	540.4
62.5	21.5	15.4	47.4	32	45.4	31.9	28.9	538.6
100	20.1	19.8	44.3	24.5	42.3	27.8	24.8	537.6
200	18	29.0	39.8	10.8	37.8	21.8	18.8	536.5
250	17.3	32.8	38.3	5.5	36.3	19.8	16.8	536.3

## ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00076	Consult Molex	PowerCat 6 4 Pair Cable, CM Rated, 305m, Reel in a Box - Blue
CAA-00176	Consult Molex	PowerCat 6 4 Pair Cable, CM Rated, 305m, Reel in a Box - Grey
CAA-00076-RD	Consult Molex	PowerCat 6 4 Pair Cable, CM Rated, 305m, Reel in a Box - Red
CAA-00076-YL	Consult Molex	PowerCat 6 4 Pair Cable, CM Rated, 305m, Reel in a Box - Yellow

## MOLEX CONNECTED ENTERPRISE SOLUTIONS

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