

HDC RJ4501 MMSCAT6-1000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Make your connections fit for the future With the advanced solutions from RockStar® ModuPlug Industrial applications are becoming increasingly complex. The demands being made of the connectivity used are growing at the same time. Functionality in the smallest of installation spaces, safe installation and a fast retrofitting process are just some of the product properties being called for. Not only does our RockStar® ModuPlug modular plug-in connector system meet current market requirements; it has been specially designed with the future in mind too. Using the individual modules, you combine all the necessary functions for power, signal and data transmission in a single interface. Thanks to the new variety of module sizes, you can fit more applications than ever before in one plug-in connector. The modules reduce the amount of space required and cut costs when compared with fixed-pole inserts and other modular plug-in connector systems. The sophisticated frames and modules can be installed with extreme ease and integrated into HDC enclosures with the IP65 and IP68 protection classes. You can even use the RockStar® ModuPlug to supplement existing applications without any need to make system adjustments. As an experienced Industrial Connectivity partner, Weidmüller offers ultra-modern connectivity with maximum reliability. So you can create customised solutions for future-proof connections with RockStar® too.

General ordering data

| | |
|------------|---|
| Order No. | 2661951000 |
| Type | HDC RJ4501 MMSCAT6-1000 |
| GTIN (EAN) | 4050118675658 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E316369

Dimensions and weights

| | | | |
|------------|-------|-----------------|---------------|
| Length | 10 m | Length (inches) | 393.7008 inch |
| Net weight | 416 g | | |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Electrical properties

| | | | |
|------------------------------------|------|-----------------|----------------------------|
| Operating voltage | 48 V | Nominal voltage | 48 V |
| Current-carrying capacity at 50 °C | 1 A | PoE / PoE+ | conforming to IEEE 802.3at |

Cable structure

| | | | |
|-----------------------|---|---------------------------------------|--|
| Strands | 7 | Sheathing colour | grey |
| Cross-section | 4*2*AWG 27/7 - 4*2*0.1 mm ² | Shielding | S/FTP |
| Number of wires | 8 | Insulation cross-section | 1.04 mm |
| Insulation | PE | Sheath diameter, max. | 5.9 mm |
| Sheath diameter, min. | 5.5 mm | Material sheath | LSZH |
| Copper diameter | 0.43 mm | Arrangement of wire cores | Twisted pair |
| Complete shielding | Shielding braid made from copper wiring | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |

Electrical properties of cable

| | | | |
|-------------------------------------|-----------------|--|-------------------------|
| Transmission rate | 10 Gbit/s | Operating voltage | 48 V |
| Category | Cat. 6A | Nominal current | 1 A |
| Coupling attenuation up to 1000 MHz | 80 dB | Separating class according to EN 50174-2 | d |
| Capacity at 1 kHz | 46 nF/km | Coupling resistance at 10 MHz / m | 5.00 mΩ |
| Shield attenuation up to 1000 MHz | 60.00 dB | Signal propagation time | 4.4 ns/m |
| Test voltage: wire-wire-shield | 750 V DC, 1 min | Resistance differential | 5 % |
| Delay skew | 25 ns/100m | Characteristic impedance | 100 ± 15 Ω at 1-100 MHz |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002599 | ETIM 9.0 | EC002599 |
| ETIM 10.0 | EC002599 | ECLASS 14.0 | 27-06-03-07 |
| ECLASS 15.0 | 27-06-03-07 | | |

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Drawings

| | | | | |
|------|---|----------------|---|------|
| RJ45 | 1 | white (orange) | 1 | RJ45 |
| | 2 | orange | 2 | |
| | 3 | white (green) | 3 | |
| | 4 | blue | 4 | |
| | 5 | white (blue) | 5 | |
| | 6 | green | 6 | |
| | 7 | white (brown) | 7 | |
| | 8 | brown | 8 | |