

## HDC RJ4501 MMSCAT6-0750

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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

|            |                            |
|------------|----------------------------|
| Version    |                            |
| Order No.  | <a href="#">2661950750</a> |
| Type       | HDC RJ4501 MMSCAT6-0750    |
| GTIN (EAN) | 4050118675627              |
| Qty.       | 1 pc(s).                   |

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## Technical data

## Dimensions and weights

|            |         |                 |              |
|------------|---------|-----------------|--------------|
| Length     | 7.5 m   | Length (inches) | 295.276 inch |
| Net weight | 370.5 g |                 |              |

## Electrical properties

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

## Cable structure

|                           |   |                                       |  |
|---------------------------|---|---------------------------------------|--|
| Arrangement of wire cores | Twisted pair                            | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Complete shielding        | Shielding braid made from copper wiring | Copper diameter                       | 0.43 mm  |
| Cross-section             | 4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>  | Insulation                            | PE   |
| Insulation cross-section  | 1.04 mm                                 | Material sheath                       | LSZH   |
| Number of wires           | 8                                       | Overlap of shielding braid            | 60 %   |
| Sheath diameter, max.     | 5.9 mm                                  | Sheath diameter, min.                 | 5.5 mm   |
| Sheathing colour          | grey                                    | Shielding                             | S/FTP  |
| Strands                   | 7                                       |                                       |  |

## Electrical properties of cable

|                                   |                         |  |               |
|-----------------------------------|-------------------------|--|---------------|
| Capacity at 1 kHz                 | 46 nF/km                | Category                                 | Cat. 6A       |
| Characteristic impedance          | 100 ± 15 Ω at 1-100 MHz | Coupling attenuation up to 1000 MHz      | 80 dB         |
| Coupling resistance at 10 MHz     | 5 mΩ/m                  | Deviation                                | 25 ns/100m    |
| Operating voltage                 | 48 V AC / DC            | Rated current                            | 1 A           |
| Resistance differential           | 5 %                     | Separating class according to EN 50174-2 | d             |
| Shield attenuation up to 1000 MHz | 60 dB                   | Speed                                    | 10 GBit/s     |
| Test voltage: wire-wire-shield    | 750 V DC, 1 min         | Transmission rate                        | None, 10 Gbps |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ECLASS 9.0  | 27-06-03-07 | ECLASS 9.1  | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-07 | ECLASS 11.0 | 27-06-03-07 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E316369 |

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**Technical data**

**Downloads**

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|                    |  |
|--------------------|--|
| Engineering Data   | <a href="#">STEP</a>                     |
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |

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**Data sheet**

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**Drawings**

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|      |   |                |   |      |
|------|---|----------------|---|------|
| 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 |      |

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