Data sheet

HDC RJ4501 MMSCAT6-0600

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.	2661950600
Type	HDC RJ4501 MMSCAT6-0600
GTIN (EAN)	4050118675603
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	6 m	Length (inches)	236.2205 inch
Net weight	241 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 mm²	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	Overlap of shielding braid	60 %
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

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Accessories

Electrical modules

Flexible
The four module sizes make for individual plug solutions that save a huge amount of space. The smaller pitch translates into an optimised design too.

General ordering data

Type	HDC MRJ45 GC F	Version
Order No.	2592030000	RJ45 module, 50 V, 1 A, Number of poles: 8, RJ45, Female, Required
GTIN (EAN)	4050118600506	plug-in slots: 1
Qty.	1 ST	
Type	HDC MRJ45 PCADP MC	Version
Order No.	2592260000	RJ45 module, 0 V, 0 A, Number of poles: 1, RJ45, Male, Required
GTIN (EAN)	4050118602364	plug-in slots: 1
Qty.	1 ST	