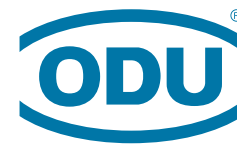


ODU AMC[®] HIGH-DENSITY WITH CHROME-PLATED SURFACE



ODU AMC[®] High-Density with chrome-plated surface is a miniature connector solution designed for a multitude of application areas.



ODU AMC[®] HIGH-DENSITY CHROME-PLATED

Due to his chrome-plated surface these connectors series are highly robust and can be configured in many different ways: autoclavable versions, a variety of sizes, termination types and contact inserts are available.

The compact and lightweight connector ensures a highly reliability and easy handling. In shell diameters as small as 7 mm up to 18.5 mm and providing a contact density of up to 40 contacts, the ODU AMC[®] High-Density includes numerous high-density signal configurations and tailored versions for power (up to 15 A) and for high-speed data transmission in a very compact package.

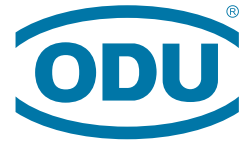
KEY FEATURES AND CUSTOMER BENEFITS

- + High-speed data transfer capability: USB[®] 3.2 Gen 1x1¹, USB[®] 2.0¹ and HDMI^{®1}
- + 500 autoclaving cycles in accordance with DIN EN 13060 at 134° C for 5 minutes
- + Extremely robust and stable housing
- + Watertight protection IP68 – 2 m Break-Away for quick and easy unlocking
- + Color-coded identification
- + Termination to PC-boards or rigid-flex solutions

¹ These ODU specific connectors can transmit common data transmission protocols such as USB[®] 2.0, USB[®] 3.2 Gen 1x1 and HDMI[®], but they are not USB[®]- and HDMI[®]-standard connectors.

ODU AMC[®] HIGH-DENSITY

TECHNICAL DETAILS



Size	Number of contacts	Max. current (Ampere) Single contact load	DWV Voltage ² (VDC)	Max. wire size soldercup	Suitable for
00	2	3	1.200	AWG 24	-
	4	1	900	AWG 28	-
	7	1	750	AWG 24	USB [®] 2.0 ¹
	U4	1 3		AWG 28	
0	8	1	750	AWG 24	Ethernet Class EA 1 Channel up to 80 m 10 Gbit
	9	1 5		AWG 22 AWG 28	USB [®] 2.0 ¹ + Power
	12			AWG 22 AWG 28	USB [®] 3.2 Gen 1x1 ¹
	16	1		AWG 28	-
1	20	1 5	750	AWG 22 AWG 28	-
	27	1		AWG 28	HDMI ^{®1}
1.5	40	1	750	AWG 28	-

¹ These ODU specific connectors can transmit common data transmission protocols such as USB[®] 2.0, USB[®] 3.2 Gen 1x1 and HDMI[®], but they are not USB[®]- and HDMI[®]-standard connectors.

² SAE AS 13441:2004 method 3001.1

SILICONE-OVERMOLDED SYSTEM SOLUTION

Applications in extreme environmental factors are often exposed to strong mechanical and chemical influences. ODU offers a flexible complete system consisting of connectors, cables with matching assembly and optional labelling. The complete solution is precisely tailored to the application.

ODU relies on many years of cooperation with leading cable manufacturers in different sectors. ODU also takes care of testing and documentation – therefore we supply your complete system solution.

KEY FEATURES

- + Prevention of the stick-slip effect
- + Bend protection and new shape: smoothly transitioning overmolding



All dimensions are in mm. Some figures are for illustrative purposes only. Subject to change without notice. Errors and omissions excepted. We reserve the right to change our products and their technical specifications at any time in the interest of technical improvement. This publication supersedes all prior publications. This publication is also available as a PDF file that can be downloaded from www.odu-connectors.com