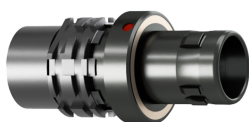


Straight break-away plug for bend relief

Size: 2, IP6K8 / IP6K9K, Keying: A, Number of contacts: 16, Solder cup, Contact type: Pins, HDMI® 1.3 (8.13 Gbit/s)



Basic information

Part number	A12YAR-P16XCD0-0000
Category	Connector
Type of connector	Plug
Assembly situation	Straight
Size	2

Contact insert description

Special features	Data transmission
Transmission type	HDMI® 1.3 (8.13 Gbit/s)
Number of contacts	16
Contact type	Pins
Contact diameter	0.5 mm
Termination type	Solder cup
Termination diameter	0.65 mm
Wire cross section AWG	AWG 26

Reverse gender on request

Technical information

Max. current single contact	0 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	2.5	VDE 0298-4:2003
Test voltage	1.2 kV AC	EIA-364-20F:2019-02

All shown connectors are rated to a safety extra low voltage (SELV) of less than 50 V AC / 75 V DC, according to IEC 61140:2016 (VDE 0140-1:2016) Protection against electric shock - Common aspects for installation and equipment. In case other standards rule a specific use of the connector, the application specific safety criteria shall be considered first. In this context, lower voltage ratings may be valid. Warning: Danger to life for operating voltages above 50 V AC / 120 V DC!

Cable description

Cable outlet	Overmolding
Min. cable diameter	5
Max. cable diameter	10

Mechanical and environmental data

Locking principle	Break-Away
Keying	A
Mating cycles	5000
IP class	IP6K8 / IP6K9K
Max. operating temperature	125 °C
Min. operating temperature	-51 °C
Weight	8.88 g

*IP protection class refers to mated condition

Material and surface treatments

Material	Aluminum with ruthenium finish
Insulator material	PEEK
Contact material	Gold

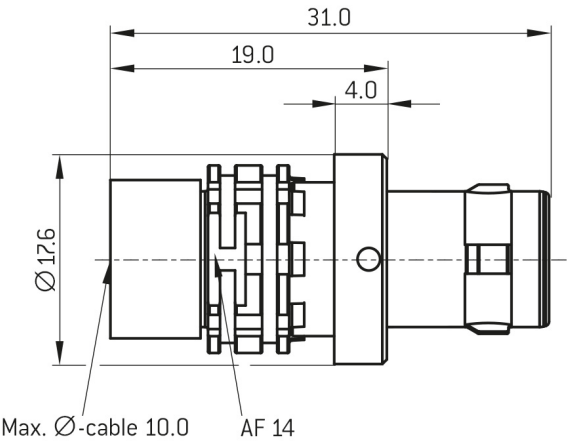
Unless explicitly confirmed otherwise the contact arrangement of an ODU data transmission connector differs from a standard data transmission connector due to the robust ODU specific design. However, the ODU design meets the electrical specifications of the respective standard data transmission protocol.

ODU MEDI-SNAP® and MINI-SNAP® are UL-approved (E110586).

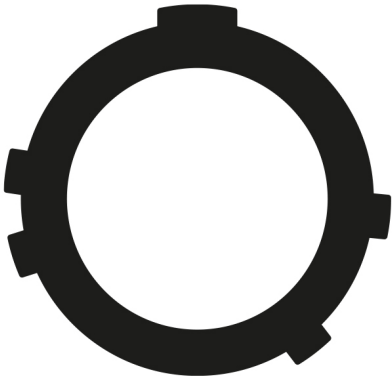
ODU reserves the right to make changes based on the current state of knowledge without prior notice without being obliged to provide replacement deliveries or refinements of older designs.

All shown connectors are defined without breaking capacity (COC) according to IEC 61984:2008 (VDE 0627:2009).

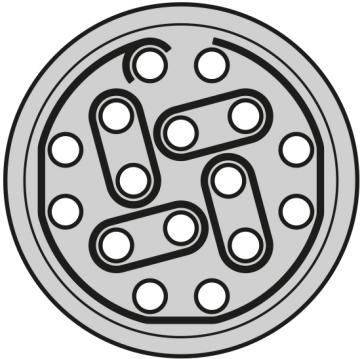
DIMENSIONS:



CODING:A



POSITIONS: 16 positions



Further technical information and downloads

Connection diagram	Pos. ODU®		Color/Shield		Pair	Signal		Pos. ODU®
	2+	red				TMDS Data2+		1
	housing	shield		pair		TMDS Data2 Shield		2
	2-	white				TMDS Data2-		3
	1+	blue				TMDS Data1+		4
	housing	shield		pair		TMDS Data1 Shield		5
	1-	white				TMDS Data1-		6
	0+	green				TMDS Data0+		7
	housing	shield		pair		TMDS Data0 Shield		8
	0-	white				TMDS Data0-		9
	C+	brown				TMDS Clock+		10
	housing	shield		pair		TMDS Clock Shield		11
	C-	white				TMDS Clock-		12
	14	white				HEC Data-		19
	13	shield		pair		DDC / CEC / HEC Ground		17
	15	black				HEC Data+		14
	9	red		-		CEC		13
	10	orange		-		SCL		15
	11	yellow		-		SDA		16
	12	white		-		+5V Power		18
	16	-		-		-		-
	housing	outer-shield		-		-		housing

[3D-File \(STP File\)](#)

[Assembly Instruction](#)