

Cable assembly with straight break-away plug with overmolding

Size: 0, IP68 / IP6K9K, Keying: B, Solder cup, Contact type: Pins, Ethernet/IP® (10 Gbit/s), Overmolding, Cable type: Patch cable Cat 6A - Preassembled (PVC), Second side: RJ45 plug



Basic information

Part number	CA10WBM084IYL001000
Part no. without assembly	A10WBM-PD8XBEO-0000
Category	Cable Assembly
Type of connector	Plug
Assembly situation	Straight

Contact insert description

Special features	Data transmission
Transmission type	Ethernet/IP® (10 Gbit/s)
Number of contacts	8
Contact type	Pins
Contact diameter	0.3 mm
Termination type	Solder cup

Reverse gender on request

Technical information

Nominal current single contact	1 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	0.65 A	VDE 0298-4:2013
Test voltage	0.75 kV DC	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
Bend relief color	Black
Min. cable diameter	3.2
Max. cable diameter	7
Cable type	Patch cable Cat 6A - Preassembled (PVC)
Cable color	Black
Cable diameter	5.8 mm
Assembly length	1000 mm
Second side	RJ45 plug
UL style	E244889
Conductor	Bare copper
Wire cross section AWG	AWG 27

Mechanical and environmental data

Locking principle	Break-Away
Keying	B
Mating cycles	5000
IP class	IP68 / IP6K9K
Max. operating temperature	75 °C
Min. operating temperature	-40 °C

*IP protection class refers to mated condition

Material and surface treatments

Material	Cu-alloy with ruthenium finish
Insulator material	PEEK
Contact material	Cu-alloy with gold finish

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 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:

21.5
14.2
1.2
Ø12.8
Max. Ø-cable 7
AF 10

CODING:B

POSITIONS: 8 positions

② ① ⑧
③ ⑦
④ ⑤ ⑥

L (mm)

Further technical information and downloads

Connection diagram	Pos. ODU®	Color	Pos. RJ45®
	1	green-white	3
	2	green	6
	3	brown-white	7
	4	brown	8
	5	blue-white	5
	6	blue	4
	7	orange-white	1
	8	orange	2
	housing	shield	housing

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

[Technical specifications](#)