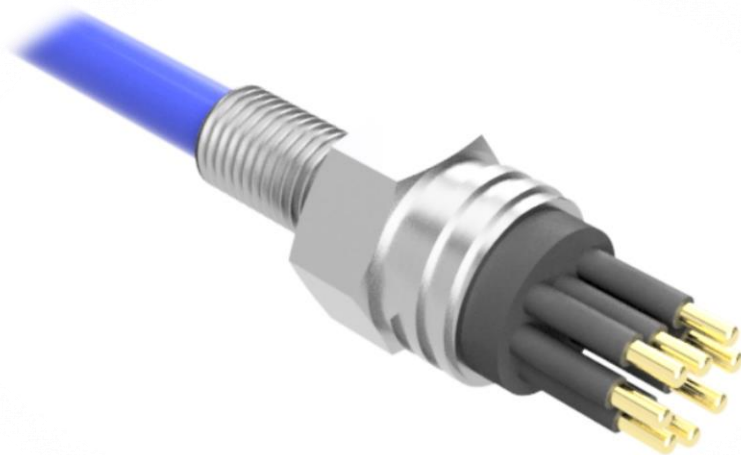


BIRNS AQUAMATE ETHERNET SERIES

WET MATE ETHERNET CONNECTORS



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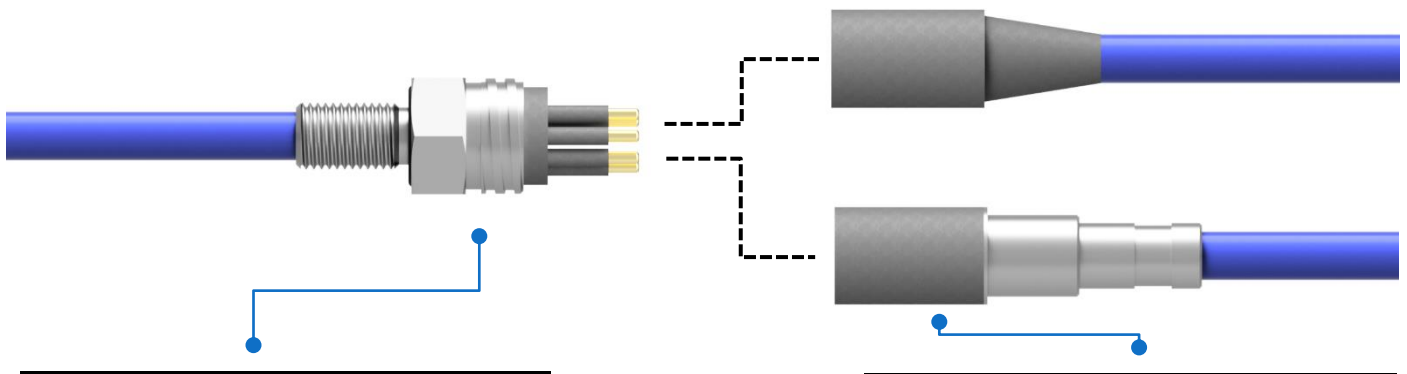
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WET MATE ETHERNET CONNECTOR: 8 CONTACTS



Bulkhead

-Cat 6 Ethernet Cable x 1M

Options

-Custom cable length

Supplied without RJ45 jack. See page 5. RJ45 for further ordering info

Cable

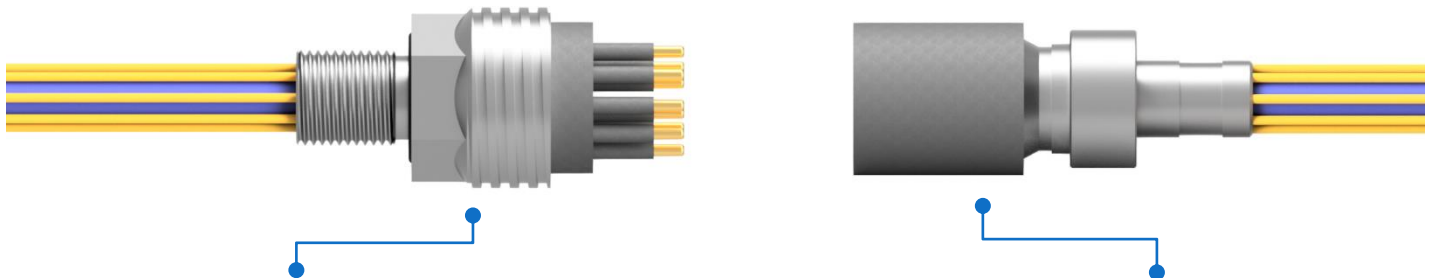
-Inline (IL) or Over Mold (OM) Configuration
-Cat 6 Ethernet Cable:
x 1M for inline Cable connectors
x 0.1M for Over Mold connectors

Options

-Custom cable length

Supplied without RJ45 jack. See page 5. RJ45 for further ordering info

WET MATE ETHERNET POWER HYBRID CONNECTOR



Bulkhead

-Cat 6 Ethernet Cable and Power wires x 1M

Options

-Custom cable length
-Custom wire gauge, count, and length

Supplied without RJ45 jack. See page 5. RJ45 for further ordering info

Cable

-Over Mold (OM) Only.
-13 pin inline coming soon!
-Cat 6 Ethernet Cable and Power wires x 0.1M
-Power wires per request

Options

-Custom cable length
-Custom wire gauge, count, and length

Supplied without RJ45 jack. See page 5. RJ45 for further ordering info

PART NUMBER & ORDERING INFO

The Ethernet capability can be fitted to most of our existing products. For ordering use the base part number with -ETH suffix:

PN-ETH

Ordering Part Numbers

Base Product	Base Product Description	Bulkhead Connector Examples	Cable Connector Examples	Over Mold Connector Examples
MC	Mini Connector	MCBH8FSS-ETH MCBH12MSS-ETH	MCIL8M-ETH NA	MCOM8MSS-ETH MCOM12MSS-BIRNS-ETH
SC	Standard Connector	SCBH8FSS-ETH SCBH16MSS-ETH	SCIL8M-ETH NA	SCOM8MSS-ETH SCOM16MSS-ETH
MCLP	Mini Connector Low Profile	MCLPBH9FSS-ETH	MCLPIL9M-ETH	NA
FCR/BCR	Metal Shell 1500/2000	FCR1508M-ETH	MCIL8F-ETH	MCOM8F-ETH
LP	Low Profile	LPBH9FSS-ETH LPBH12FSS-ETH	LPIL9M-ETH NA	NA
FAWM	FAWM Series	FAWM-BH8MSS-ETH FAWM-BH10MSS-ETH	FAWM-IL8F-ETH NA	NA
5500	5500 Series	5506-2008-0003-ETH 5506-2013-0003-ETH	5501-2008-0003-ETH NA	55A1-2008-ETH 55A1-2013-ETH

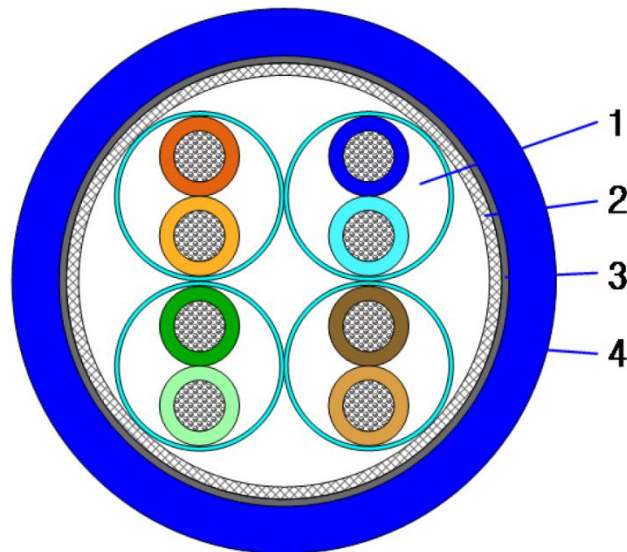
Notes:

- Inline cable connectors only available for 8 contacts.
- Additional part numbers and pin configurations are available. Inquire for more info.
- Supplied without RJ45 jack. See page 5. RJ45 for further ordering info.

Reference Part Numbers and Compatibility

Ref \Contacts	Inline Connector		Bulkhead Connector		Over Mold Connector		
	Ref PN	Birns PN	Ref PN	Birns PN	Ref PN	Birns PN	
Subconn	8	DIL8F	MCIL8F-ETH	DBH8F	MCBH8F-ETH	DOM8F	MCOM8F-ETH
		DIL8M	MCIL8M-ETH	DBH8M	MCBH8M-ETH	DOM8M	MCOM8M-ETH
	9	DIL9F	MCLPIL9F-ETH	DBH9F	MCLPBH9F-ETH	NA	NA
DIL9M		MCLPIL9M-ETH	DBH9M	MCLPBH9M-ETH			
13	DIL13F DIL13M	Coming Soon!		Coming Soon!		Coming Soon!	
		MCIL13F-ETH MCIL13M-ETH	DBH13F DBH13M	MCBH13F-ETH MCBH13M-ETH	DOM13F DOM13M	MCOM13F-ETH MCOM13M-ETH	
Eaton Burton	8	5501-1508- EXXX	5501-1508-XXXX-ETH	5506-1508- EXXX	5506-1508-XXXX-ETH	NA	NA
	13	NA	Coming Soon! 5501-2013-XXXX-ETH	5506-2013- EXXX	5506-2013-XXXX-ETH	NA	NA
	21	NA	NA	5506-2021- EXXX	5506-2021-XXXX-ETH	NA	NA

Parameter	Value
Data Rate (up to 30m)	1 Gbs
Cable	Type: Cat6 Patch AWG24 x 8 Diameter: 8mm Standard Length: 1m
RJ45 Jack	Type: Cat7 Simply45: S45-1755P Standard hookup: T568B Connectors are Supplied without RJ45 jack. To order with Unterminated RJ45 use P/N: - S45-1755P To order with Terminated* RJ45 use P/N: - RJ45-TRM *To enable wall passthrough Terminated RJ45 jacks on Bulkhead connectors are only available for 5/8" thread or larger. Specialized RJ45 Jack is required to allow mounting on the 8mm diameter CAT6 cable.
Power Lines	Up to 8 additional wires AWG18 Teflon Jacketed Custom sizes can be requested
Insulation	>200megaohm
Contacts	<0.01 ohm
Mating Cycles	>500
Temperature	-5C - +65C
Depth	>600 bar



#	
1	Individually shielded twisted pairs
2	Overall braid 80% coverage; Shield is attached to: <ul style="list-style-type: none">• 'Bulkhead body' for connectors with 8 contacts• 'Pin 9' for connectors with 9 contacts or more
3	Non-woven tape
4	8mm OD. Thermo plastic (TP) jacket
Electrical	Cat 6 Patch AWG24 x 8 acc. to ANSI TIA-568 C.2 Nominal voltage: 150 V Testing voltage: 750 V AC Insulation resistance: > 1500 M Ω x Km Electric resistance: < 94,6 Ω /Km (NFC 32018) Characteristic impedance: 100 Ω

Wire color code - Ethernet		
Designated wire	Number of contacts on connector	
	8	9+
Wire 1	Brown*	Brown*
Wire 2	Light Brown*	Light Brown*
Wire 3	Blue*	Blue*
Wire 4	Light Blue*	Light Blue*
Wire 5	Orange*	Orange*
Wire 6	Light Orange*	Light Orange*
Wire 7	Green*	Green*
Wire 8	Light Green*	Light Green*
Wire 9		Screen
Wire 10		Violet
Wire 11		Black/White
Wire 12		Black/Red
Wire 13		Black/Green
Wire 14		Black/Orange
Wire 15		Black/Blue
Wire 16		Black/Brown

*Twisted pair

Heat shrink tags as color coding for power leads.