

veam

MOVE-MOD™ Series
Modular Circular
Connectors Catalog



ITT

We Connect

Across multiple end markets Veam connectors make it possible to transfer power, signal and data in an increasingly interconnected world.

Proven quality, reliability and expertise

The Veam difference

- Global capabilities & local support
- Proven application expertise
- Over 60 years of interconnect leadership
- A committed innovator & business partner

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets.

Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries

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The innovative new MOVE-MOD™ series delivers the ultimate in modularity and flexibility by utilizing a range of snap-in modules to enable a variety of contact layouts in the same connector. Whatever the application, you can configure and reconfigure a tailor-made solution that can deliver power, signal, and data in a single ultra-robust connector shell.

Toolless assembly and installation make MOVE-MOD extremely quick and straightforward to work with, and the minimized component requirement delivers cost and time efficiencies throughout the supply chain. A unique ultra-secure bayonet coupling mechanism with secondary locking and a circular form factor that minimizes weight and footprint size means you can rely on MOVE-MOD to deliver – when it matters most.

Key Features

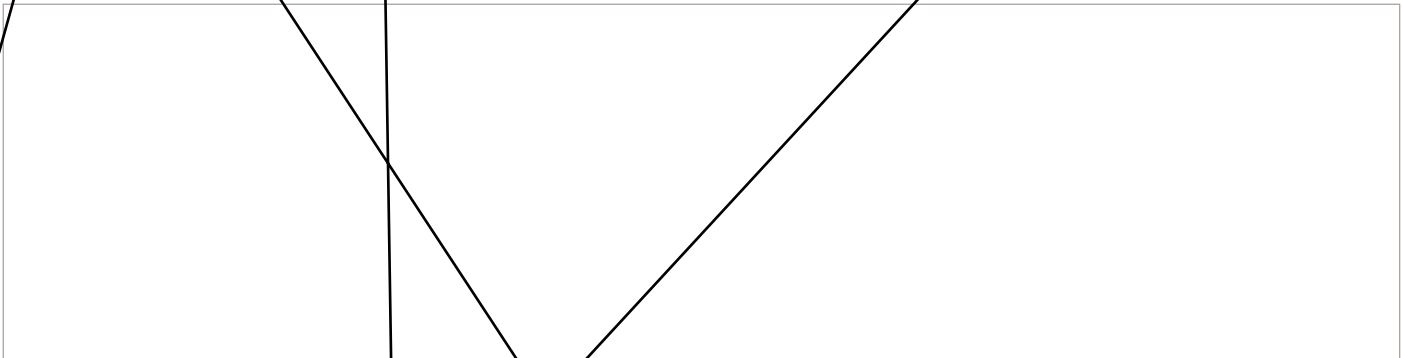
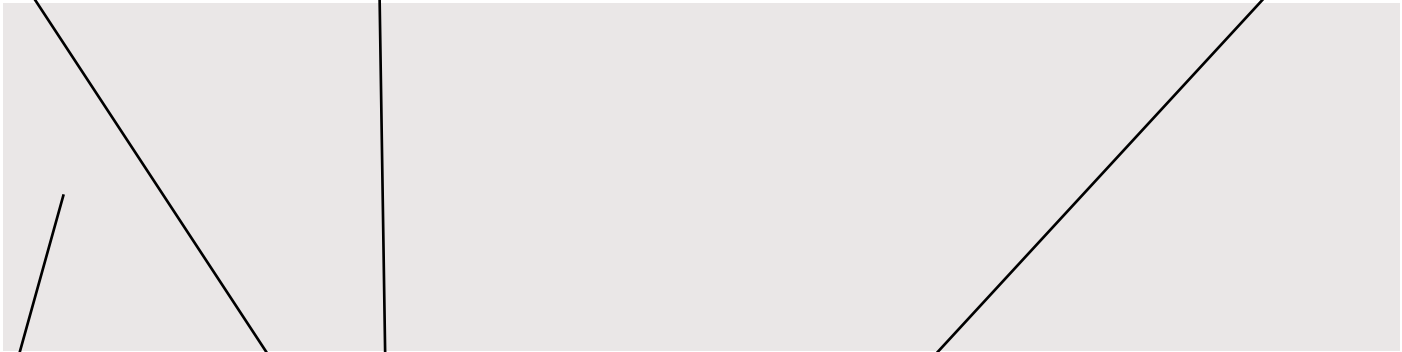
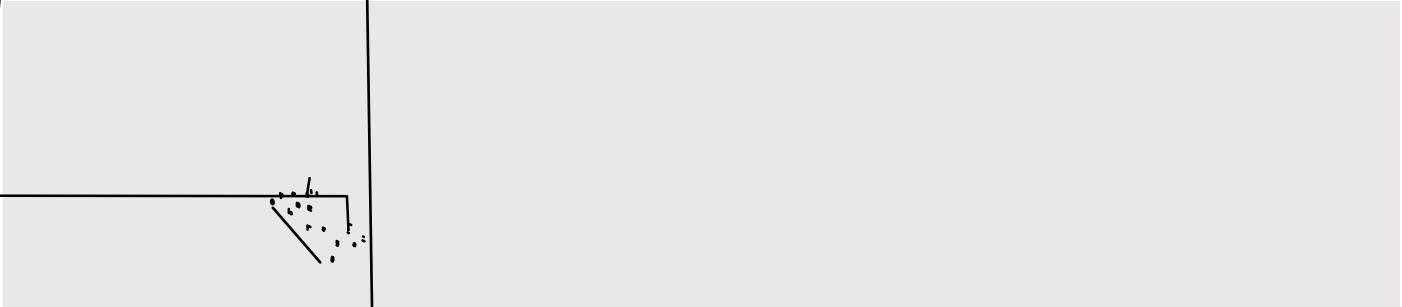
- Power, signal and data in a single connector
- Minimized component requirement delivers time and cost efficiency
- Quick and simple toolless assembly and installation
- Unique ultra-secure bayonet coupling mechanism with secondary locking
- Minimized weight and a space-saving footprint
- RoHS compliant ruggedized plating options including Blue Generation (T240) and Black Hard Anodized (T89)

Applications

- Railway rolling stock and infrastructure
- Heavy and off-road vehicles
- Harsh environment industrial
- Automation and robotics
- Autonomous and electric vehicles
- Energy and power distribution
- Machinery



ASSEMBLY OVERVIEW



MOVE-MOD DIMENSION DRAWINGS AND PART NUMBERS

Receptacles and Plugs

HOW TO ORDER

Receptacles and Plugs **MOVE** - **R** **A** - **40M** - **1** **N** **05** - **SL** **XX**

Product Family _____
MOVE

Component _____
R = Receptacle
P = Plug

Material _____
A = Aluminum

Size _____
40M = Modified Size 40

Colour _____
1 = Black (T89)
2 = Blue (T240)

Grounding Finger
GF = With FF shield spring
XX = Without FF shield spring

Secondary Locking
SL = Yes

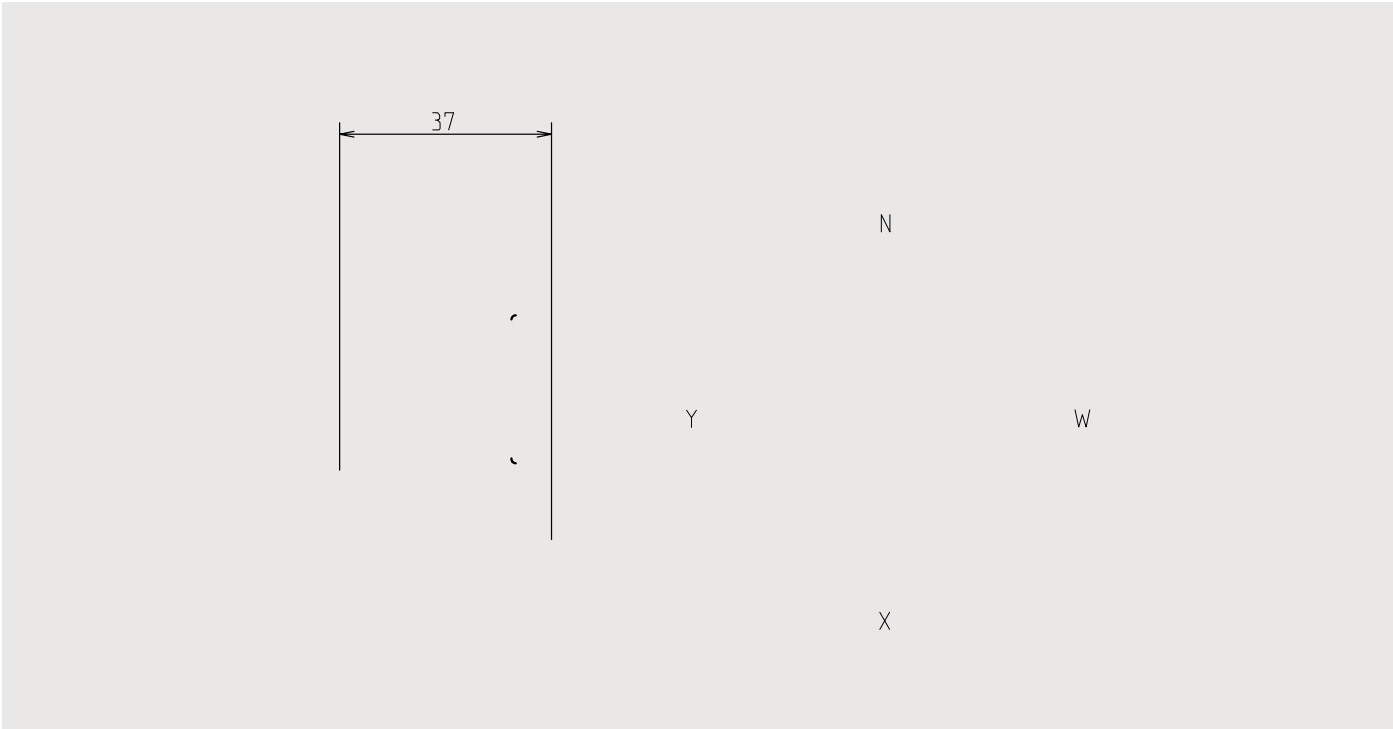
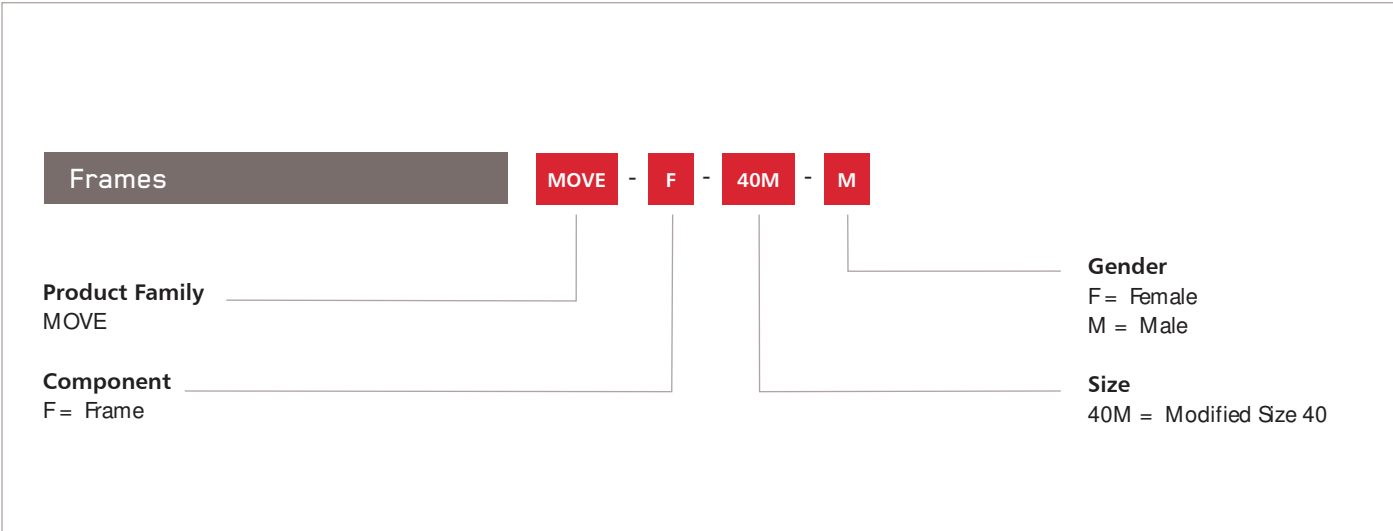
Salt Spray Resistance
05 - 500 hours

Conductivity
N = No (T89 only)
C = Yes (T240 only)

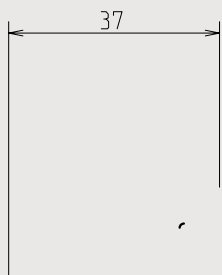
Receptacles and Plugs

Receptacles





Male Frame



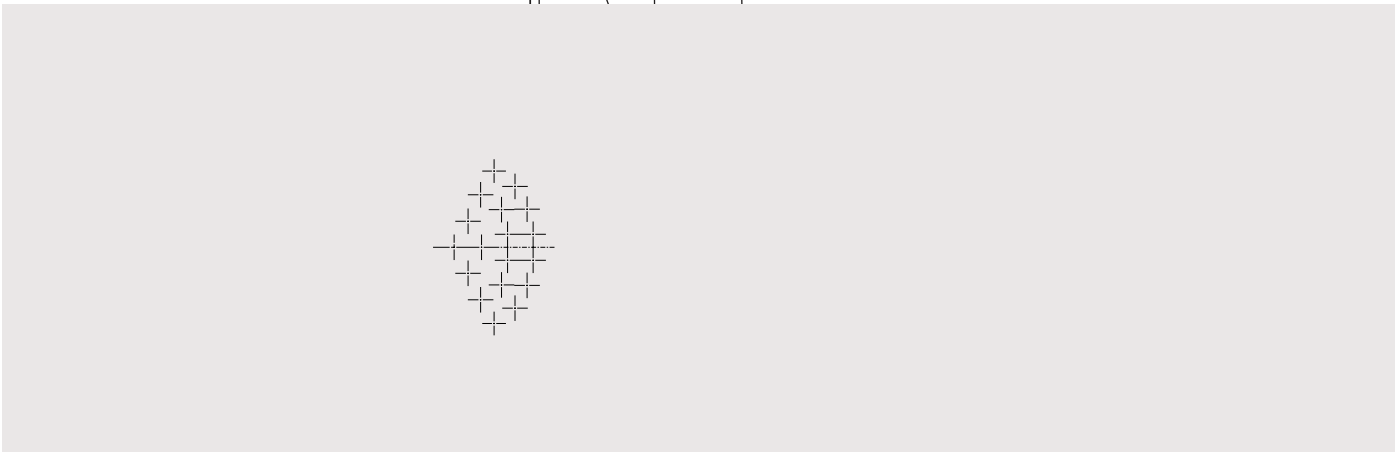
N

W

Y

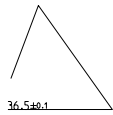
X

HOW TO ORDER

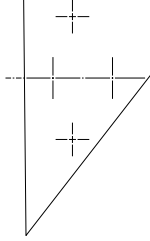


Dimensions shown in mm
Specifications and dimensions subject to change

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12



Grommets

HOW TO ORDER

Grommets **MOVE** - **G** - **40M** - **X** **01** - **M12** - **05**

Product Family
MOVE

Component
G = Grommet

Size
40M = Modified Size 40

Gender
X = Female or Male

Insulation Diameter Index

04 - See dimension data in cable range table

05 - See dimension data in cable range table

Current

015 = 15A

040 = 40A

M12 = Data Transmission

Number of Cavities

01 = 1 (for M12 contacts)

04 = 4 (for 40A contacts)

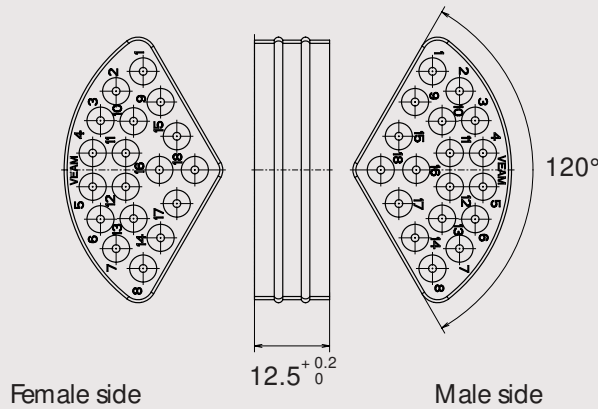
18 = 18 (for 15A contacts)

Part Number	Description	Cable Range - 04	Cable Range - 05
MOVE-G-40M-X04-040-05	4-pole Grommet	-	from Ø3mm. up to Ø6mm
MOVE-G-40M-X18-015-04	18-pole Grommet	from Ø0.8mm up to Ø1.7mm	-
MOVE-G-40M-X18-015-05	18-pole Grommet	-	from Ø1.3mm up to Ø3.5mm
MOVE-G-40M-X01-M12-05	M12 Grommet	-	from Ø6mm up to Ø10mm

Materials

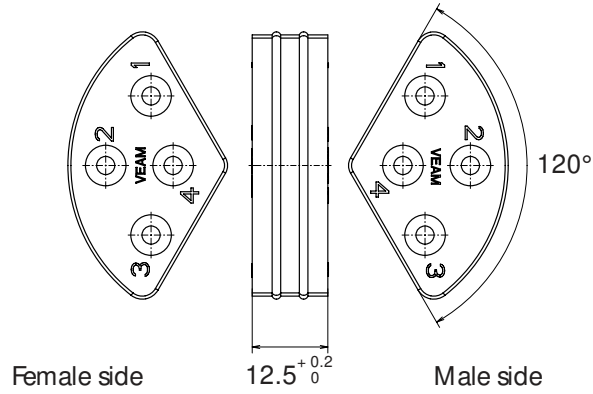
Grommet	Flame retardant rubber
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18-pole Grommet

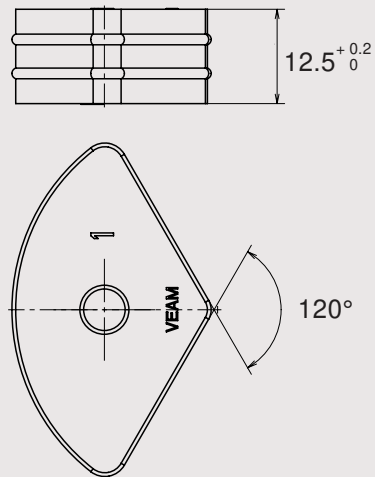


Grommets

4-pole Grommet



M12 Grommet



Contacts

HOW TO ORDER

Contacts MOVE - C - F - C 015 - G - 1.5

Product Family

MOVE

Component

C = Contact
 CEX = M12 Contact (8 poles)
 CQX = M12 Contact (4 poles)
 CTX = M12 Contact (2 poles)

Gender

F = Female
 M = Male

Contact Type

C = Crimp

Current

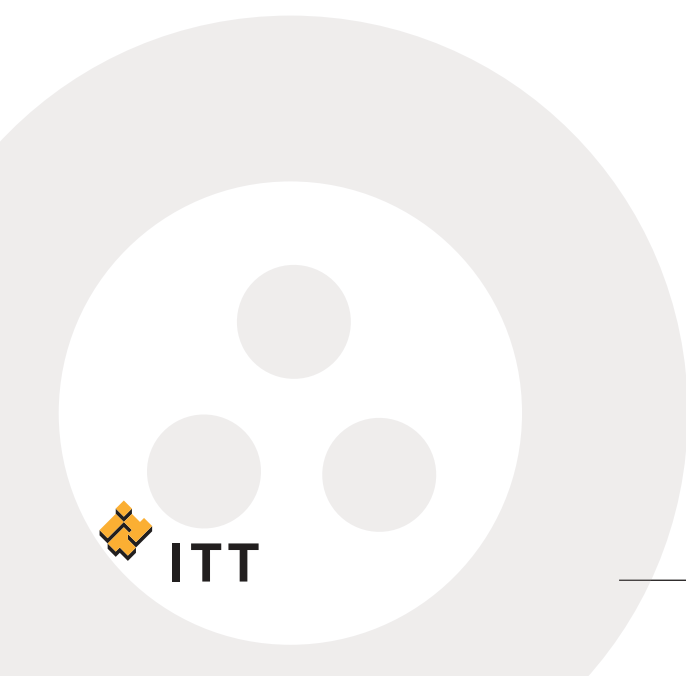
015 = 15A
 040 = 40A
 M12 = Data Transmission

Crimp Range

0.5 = 0.5mm² wire (for 15A contacts)
 1.5 = 1.5mm² wire (for 15A contacts)
 2.5 = 2.5mm² wire (for 15A contacts)
 4 = 4mm² wire (for 40A contacts)
 6 = 6mm² wire (for 40A contacts)
 10 = 10mm² wire (for 40A contacts)
 A1 = Cable range: 8 -10mm
 (for M12 contacts)
 A2 = Cable range: 6 - 8mm
 (for M12 contacts)

Plating

G = Gold
 S = Silver
 X = White zinc
 (for M12 contacts)

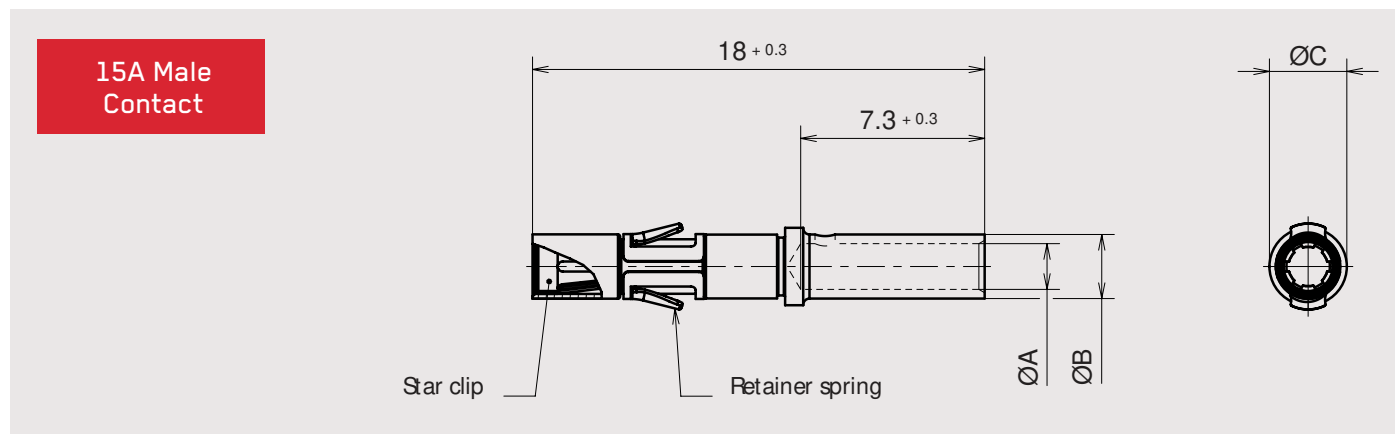
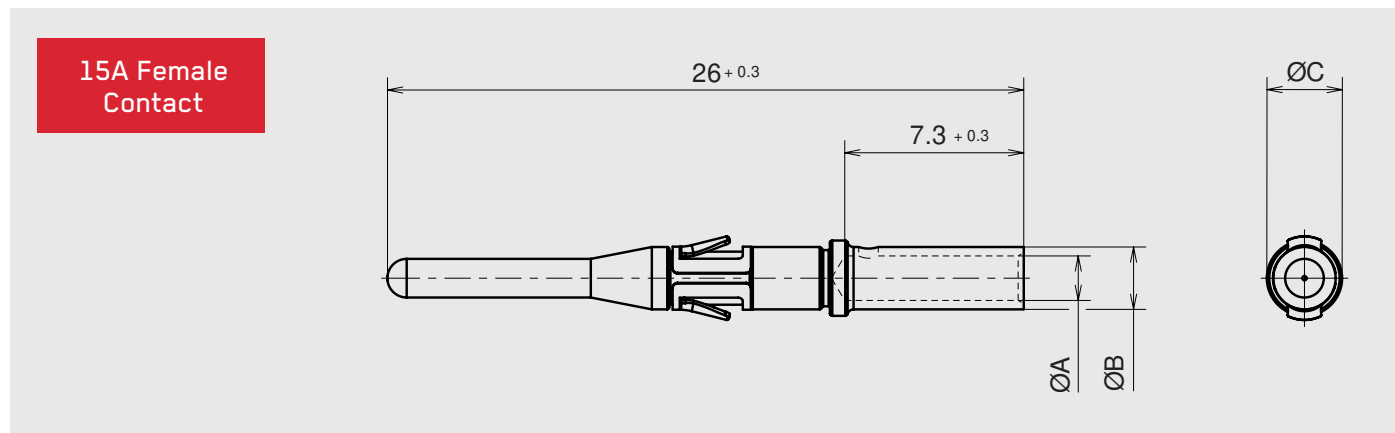


15A Contacts

Part Number	Description	Wire Size mm ²	Wire Size AWG	Diameter A	Diameter B	Diameter C
MOVE-C-F-0015G-0.5	15A Female contact	0.44 - 0.64	20	1.15	1.84	3.08
MOVE-C-F-0015G-1.5	15A Female contact	0.60 - 1.51	16	1.82	2.55	3.08
MOVE-C-F-0015G-2.5	15A Female contact	1.50 - 2.50	14	2.10	3.05	3.05
MOVE-C-M-0015G-0.5	15A Male contact	0.44 - 0.64	20	1.18	1.84	3.08
MOVE-C-M-0015G-1.5	15A Male contact	0.60 - 1.51	16	1.82	2.55	3.08
MOVE-C-M-0015G-2.5	15A Male contact	1.50 - 2.50	14	2.10	3.05	3.05

Materials

Body - Female	Copper alloy gold plated (Au= 0.125μ over Ni= 1.27μ min.)
Body - Male	Copper alloy gold plated (Au= 0.4μ min. over Ni= 5μ min.)
Star clip	Copper alloy (Au= 1μ over Ni= 1.27μ min.)
Retainer spring	Beryllium copper

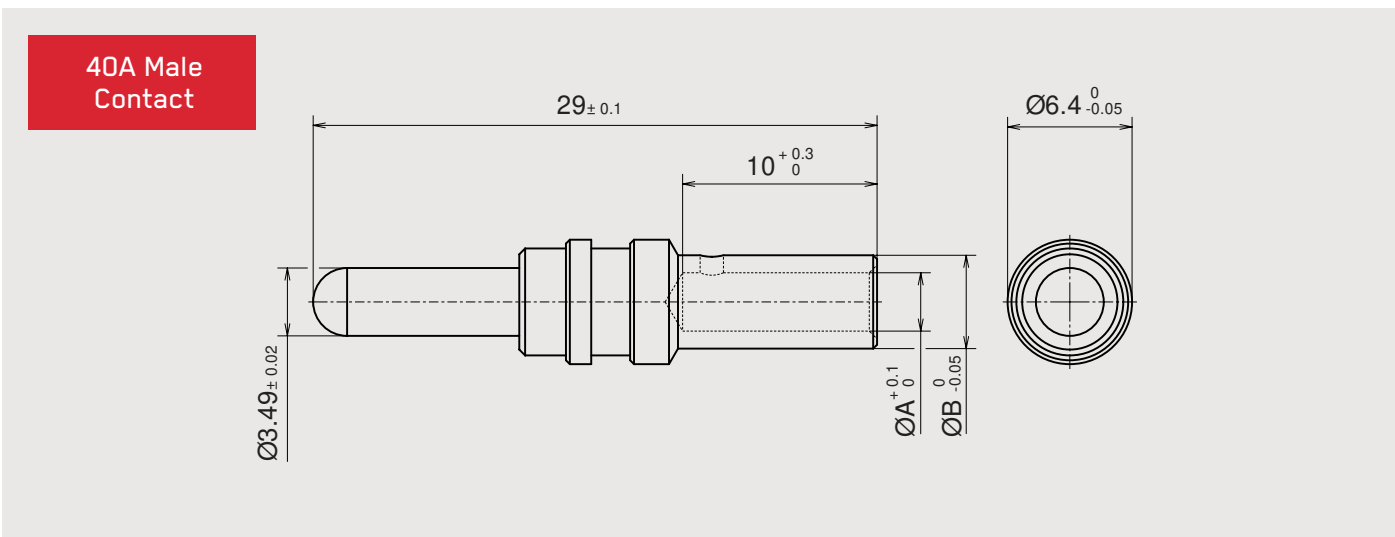
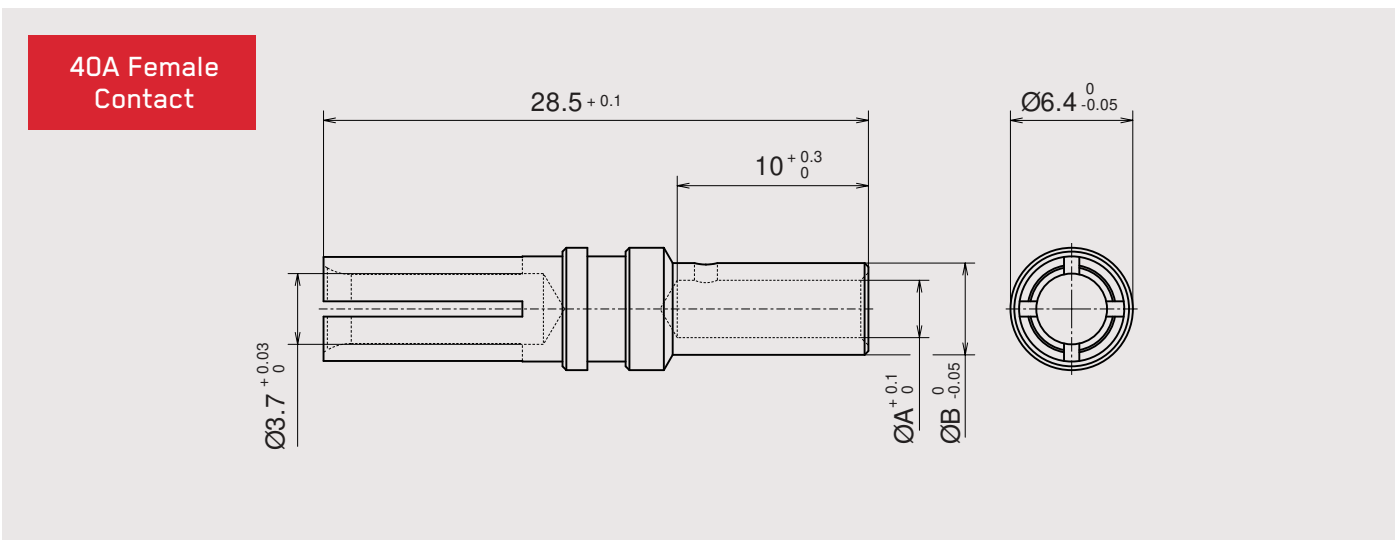


40A Contacts

Part Number	Description	Wire Size mm ²	Diameter A	Diameter B
MOVE-C-FC040S-10	40A Female contact	4.0	3.0	4.8
MOVE-C-FC040S-4	40A Female contact	6.0	3.4	4.8
MOVE-C-FC040S-6	40A Female contact	10.0	4.1	5.6
MOVE-C-M-C040S-10	40A Male contact	4.0	3.0	4.8
MOVE-C-M-C040S-4	40A Male contact	6.0	3.4	4.8
MOVE-C-M-C040S-6	40A Male contact	10.0	4.1	5.6

Materials

Body	Copper alloy silver plated (Ag= 5.1÷ 8.5µ + Protective Passivation)
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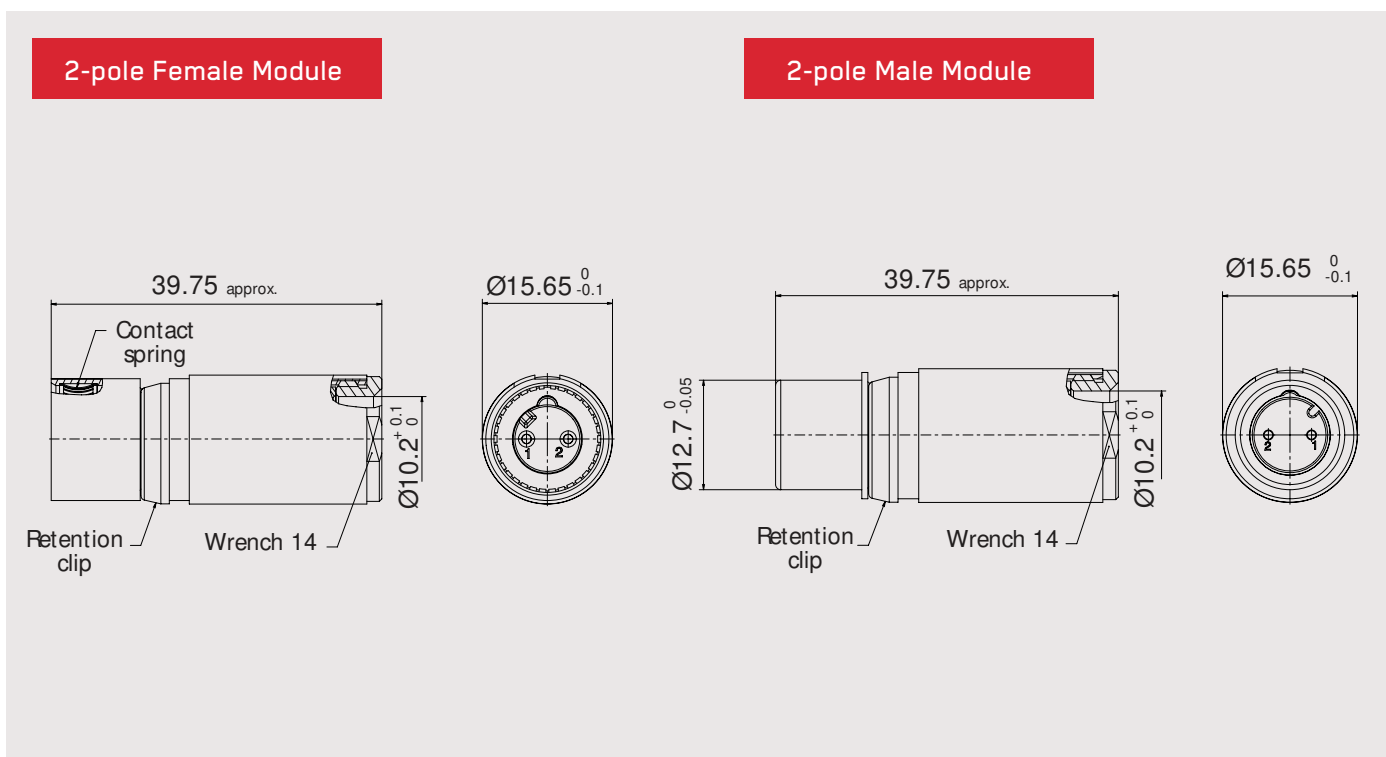


M12 Contacts

Part Number	Description	Wire Size mm ²	Wire Size AWG
MOVE-CTX-F-QM12X-A1	M12 2-pole Female contact	0.34 - 0.75	22
MOVE-CTX-M-QM12X-A1	M12 2-pole Male contact	0.34 - 0.75	22
MOVE-CQX-F-QM12X-A1	M12 4-pole Female contact	0.34 - 0.75	22
MOVE-CQX-M-QM12X-A1	M12 4-pole Male contact	0.34 - 0.75	22
MOVE-CEX-F-QM12X-A1	M12 8-pole Female contact	-	23 - 26
MOVE-CEX-M-QM12X-A1	M12 8-pole Male contact	-	23 - 26

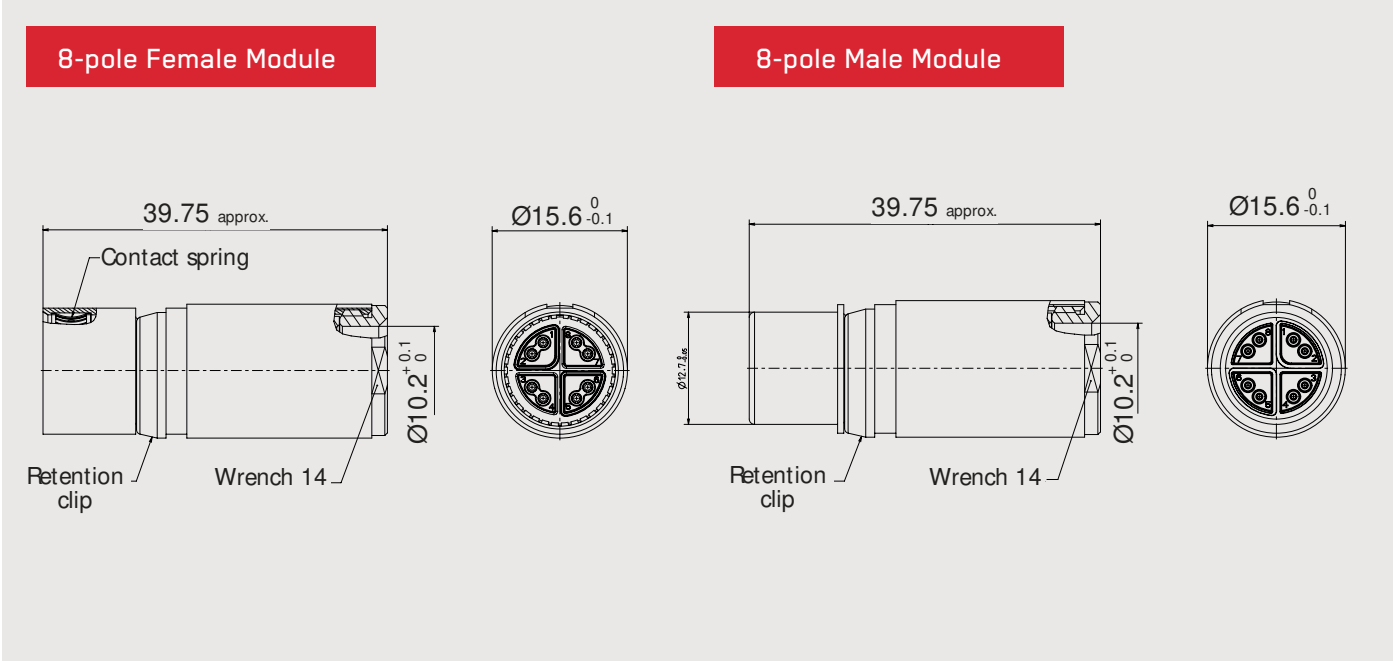
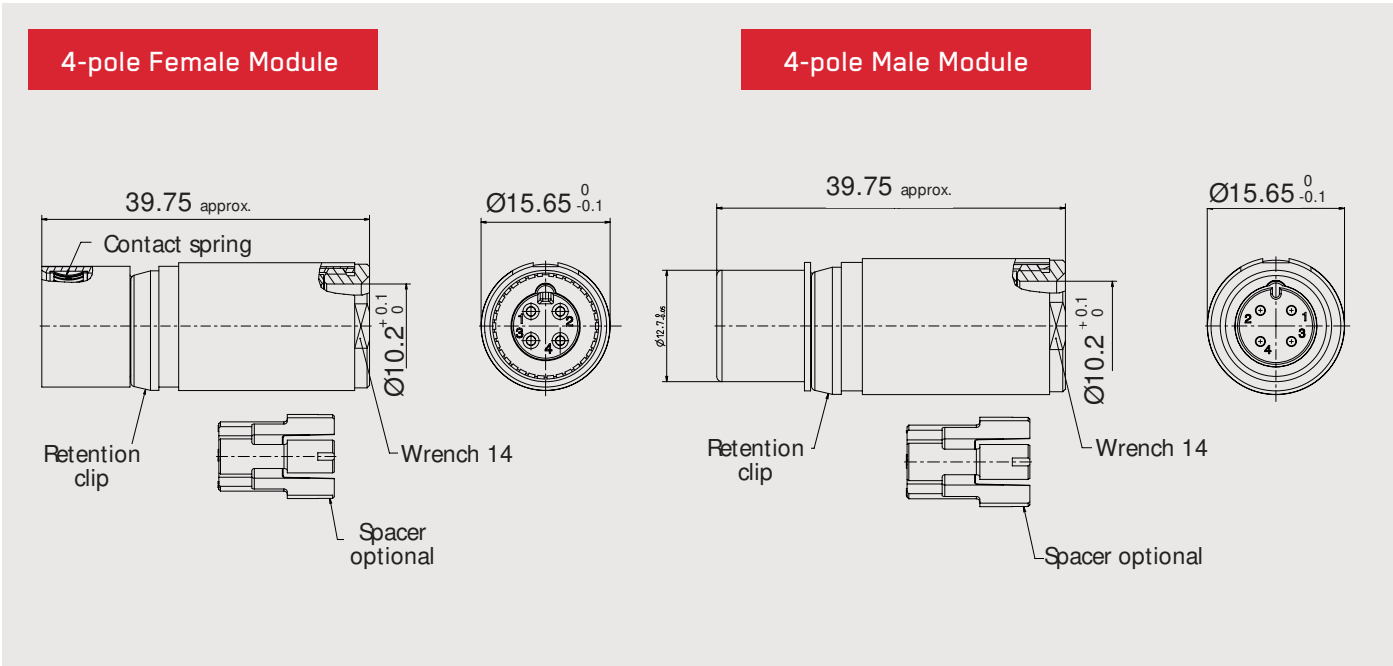
Materials

Body	Zinc-aluminum alloy, with white tropicalization plating
Insulator and plastic component	Flame Retardant Thermoplastic Material
Inner contacts	Copper alloy, gold plated



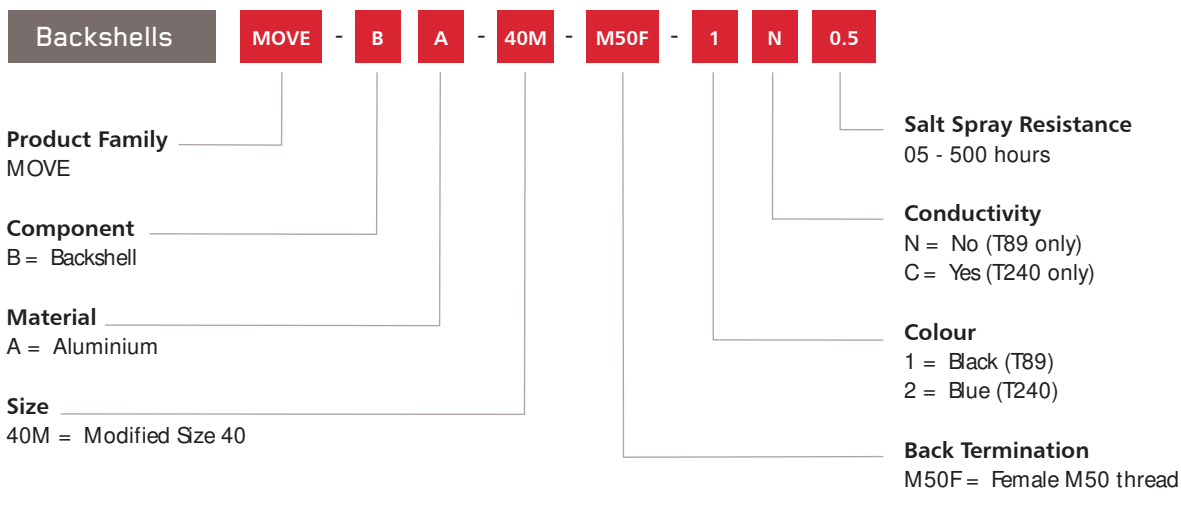
Dimensions shown in mm
 Specifications and dimensions subject to change

M12 Contacts



Backshells

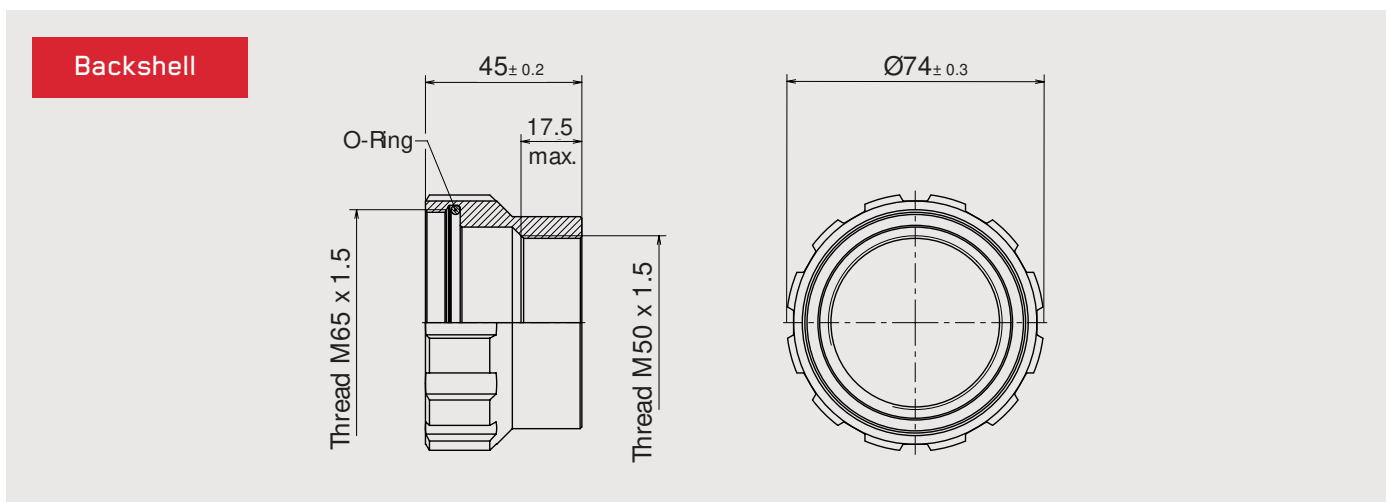
HOW TO ORDER



Part Number	Description
MOVE-BA-40M-M50F-1N05	Backshell (Black T89)
MOVE-BA-40M-M50F-2C05	Backshell (Blue A240)

Materials

Shell	Aluminum alloy with black (T89) non-conductive plating or Blue (T240) conductive plating
Gasket	Silicone rubber



Contact the factory for accessory options.

MOVE-MOD TOOLING

Contact Extraction Tools

Part Number	Description
MOVE-T	Frame & Module Extraction Tool
MOVE-T-015	15A Contact Extraction Tool
MOVE-T-040	40A Contact Extraction Tool
MOVE-T-M12	M12 Contact Extraction Tool

Frame & Module
Extraction Tool



15A Contact
Extraction Tool



40A Contact
Extraction Tool



M12 Contact
Extraction Tool



Crimping Tools

Part Number	Description
MOVE-T-FT8	15A Contact Crimping Tool
MOVE-T-B450ND-BV	40A Contact Crimping Tool
MOVE-T-612118-M12	M12 Contact Crimping Tool
MOVE-T-M22520/1-05	15A Contact Locator
MOVE-T-51589-37T70	40A Contact (4-6mm ²) Crimping Die
MOVE-T-MK6	40A Contact (10mm ²) Crimping Die
MOVE-T-46257-EX	M12 EX Contact Locator
MOVE-T-46257-QX	M12 QX & TX Contact Locator

40A Contact
(4-6mm²)
Crimping Die



40A Contact
(10mm²)
Crimping Die



Contact
Locator
Tool



M12 Contact Crimping Tool



15A Contact Crimping Tool

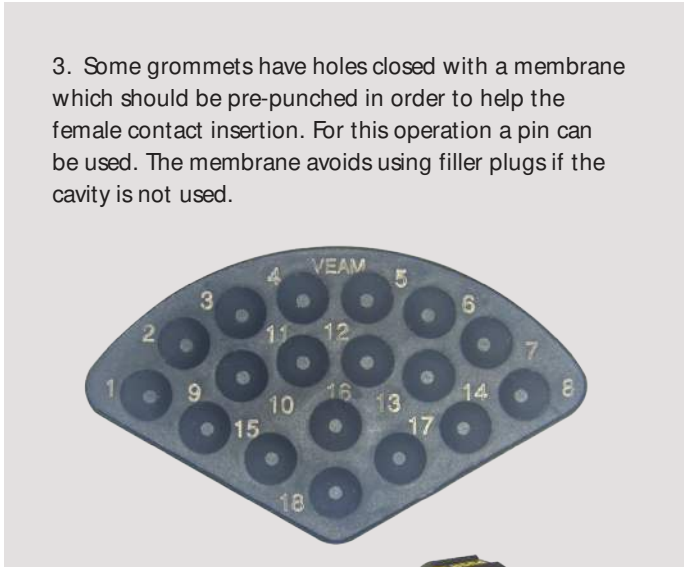


40A Contact Crimping Tool

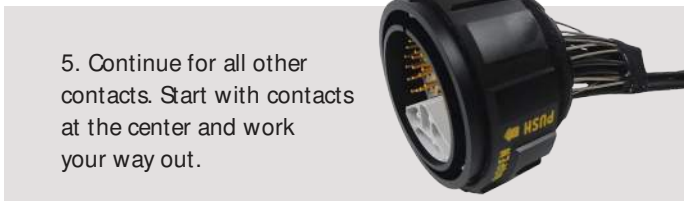


Contact Insertion Instructions

With Grommets (single wire sealing required)



4. Push the contact (*) through the grommet hole according the wiring diagram, until the mechanical stop is reached. Gently push and pull the individual wire a couple of times. The motion will show if the contact is correctly seated.
 (*) M12 contacts must be installed before the grommet.



Use the Correct extraction tool to remove contacts

Contact Insertion Instructions

Without Grommets



Use the correct extraction tool to remove contacts

Contact Part Number		Contact Size	mnq	Stripping length (L)	Setting	Contact Part Number		
Male	Female					Crimping Tool	Locator/ Crimping die	Removal tool
MOVE-C-M-0015G-0.5	MOVE-C-F-0015G-0.5	# 16 (15A)	0.5	7.1 ± 0.25 mm	4	MOVE-T-FT8	MOVE-T-M22520/1-05	MOVE-T-015
MOVE-C-M-0015G-1.5	MOVE-C-F-0015G-1.5		0.75		5			
MOVE-C-M-0015G-2.5	MOVE-C-F-0015G-2.5		1		5			
			1.5		6			
			2.5		8			
MOVE-C-M-0040S-4	MOVE-C-F-0040S-4	8 (40A)	4	10 ± 0.25 mm		MOVE-T-B450ND-BV	MOVE-T-51589-37T70	MOVE-T-040
MOVE-C-M-0040S-6	MOVE-C-F-0040S-6		6					
MOVE-C-M-0040S-10	MOVE-C-F-0040S-10		10				MOVE-T-MK6	

For M12 contacts, please consult dedicated assembly procedure: SVA007, SVA008, SVA009.

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Connect with the experts


Highly engineered connector solutions for multiple end markets.



Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. Veam connector products are relied on by global customers in multiple end markets. ITT's Connector business, which also includes the Cannon and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

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