

HESHENG

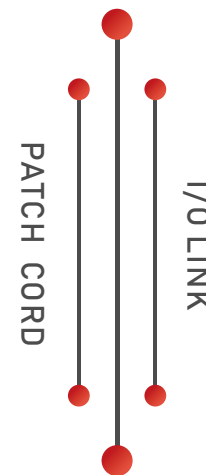
HESHENG Circular & Fieldbus connector



CUSTOMIZED CONNECTOR

HESHENG

Circular &
Fieldbus connector



禾盛五金實業有限公司

HeSheng Hardware Co., Ltd.

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穆訊特種電線電纜(上海)有限公司

MUXUN Speical Wires and Cables (Shanghai) Co., Ltd.

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2005年9月成立, 禾盛坐落在台灣台中市, 主要從事機械、電子等相關產業之線材組裝加工服務。

Founded in September 2005, Hesheng headquarter is located in Taichung, Taiwan, offering customized solutions in cable assembly & wire harnessing across various manufacturing, electronics and machinery industries.



生產線配置於台中, 南投, 佔地面積650坪。我們擁有超過300坪的倉儲空間, 保證標準纜線庫存充足。

A medium size factory with production plant in both Taichung and Nantou covering an area of 2,145m². And with a storage space over 992m², we can ensure there's always sufficient stocks on standard cables.



各大品牌連接器配件, 無論是TE、HONDA、3M、MOLEX、INTERCONTEC., 等皆有現貨。

Leading supplier of international and local connectors - major brands like TE, HONDA, 3M, MOLEX, INTERCONTEC are all available in stock.



跑合台測試機(線材壽命測試)

Complete facility to conduct individual product testing.



電子顯微端子剖面機

Leading equipment and updated software to ensure quality control.



線材裝配工作區

Professional cable assembly area with well-equipped workstations.

MOTION CONTROL

HIGH PERFORMANCE PVC



結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 聚丙烯化合物	Insulation Polypropylene Compounds
線色 棕, 藍, 黑, 白	Colour Code Brown, Blue, Black, White

Assembly

All elements are assembled in circular layer in optimal lay length with filler

外護套 特殊 PVC	Outer Sheath PVC Compound
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線徑 (mm) Cable Diameter

3芯	3.0 / 無隔離	3C	3.0 / non-shield
	4.0 / 有隔離		4.0 / shield
4芯	4.5 / 無隔離	4C	4.5 / non-shield
	5.0 / 有隔離		5.0 / shield

技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE $\geq 2500 \text{ M}\Omega$ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -40 °C / + 80 °C
動態 / dynamic -25 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 k Ω acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

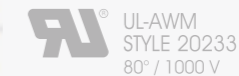
介電強度
Part 6,7 DIELECTRIC STRENGTH

產品特點 - PRODUCT'S FEATURES

耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581

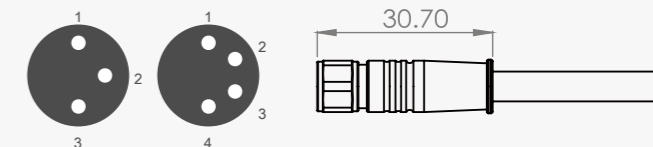
阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1

靈活性 / FLEXIBLE
EN 50289-3-9



M8 直型母接頭-裸線

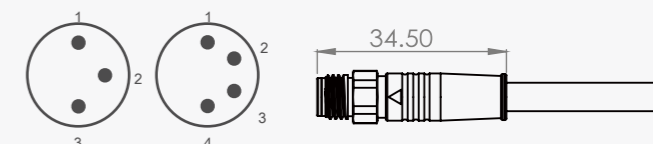
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8N0-F003-R0100	3 x 0,25	3	10	PVR
M8N0-F003-R0050	3 x 0,25	3	5	PVR
M8N0-F003-R0030	3 x 0,25	3	3	PVR
M8N0-F003-R0015	3 x 0,25	3	1,5	PVR
M8N0-F004-R0100	4 x 0,25	4	10	PVR
M8N0-F004-R0050	4 x 0,25	4	5	PVR
M8N0-F004-R0030	4 x 0,25	4	3	PVR
M8N0-F004-R0015	4 x 0,25	4	1,5	PVR

M8 直型公接頭-裸線

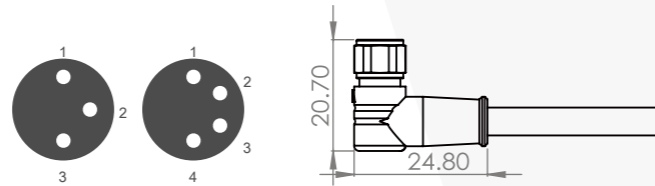
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8N0-M003-R0100	3 x 0,25	3	10	PVR
M8N0-M003-R0050	3 x 0,25	3	5	PVR
M8N0-M003-R0030	3 x 0,25	3	3	PVR
M8N0-M003-R0015	3 x 0,25	3	1,5	PVR
M8N0-M004-R0100	4 x 0,25	4	10	PVR
M8N0-M004-R0050	4 x 0,25	4	5	PVR
M8N0-M004-R0030	4 x 0,25	4	3	PVR
M8N0-M004-R0015	4 x 0,25	4	1,5	PVR

M8 彎型母接頭-裸線

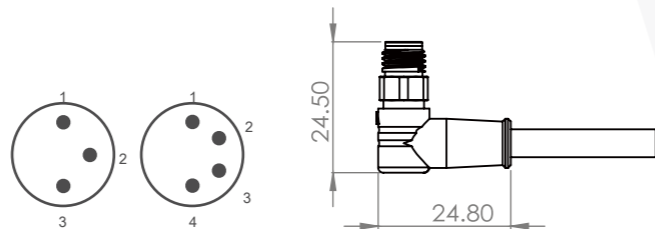
ANGLE SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8L0-F003-R0100	3 x 0,25	3	10	PVC
M8L0-F003-R0050	3 x 0,25	3	5	PVC
M8L0-F003-R0030	3 x 0,25	3	3	PVC
M8L0-F003-R0015	3 x 0,25	3	1,5	PVC
M8L0-F004-R0100	4 x 0,25	4	10	PVC
M8L0-F004-R0050	4 x 0,25	4	5	PVC
M8L0-F004-R0030	4 x 0,25	4	3	PVC
M8L0-F004-R0015	4 x 0,25	4	1,5	PVC

M8 彎型公接頭-裸線

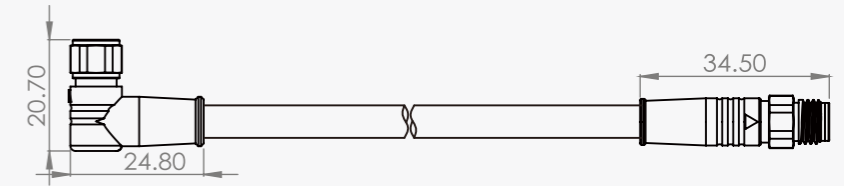
ANGLE SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8L0-M003-R0100	3 x 0,25	3	10	PVC
M8L0-M003-R0050	3 x 0,25	3	5	PVC
M8L0-M003-R0030	3 x 0,25	3	3	PVC
M8L0-M003-R0015	3 x 0,25	3	1,5	PVC
M8L0-M004-R0100	4 x 0,25	4	10	PVC
M8L0-M004-R0050	4 x 0,25	4	5	PVC
M8L0-M004-R0030	4 x 0,25	4	3	PVC
M8L0-M004-R0015	4 x 0,25	4	1,5	PVC

M8 延長電纜

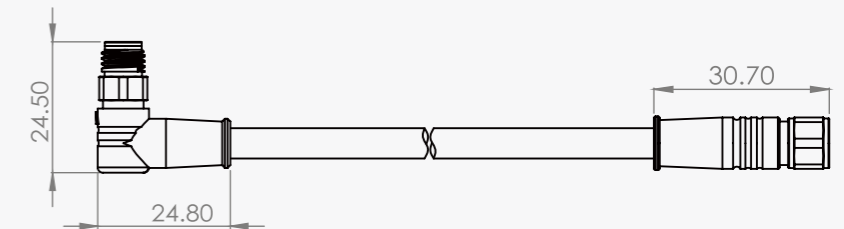
M8 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8LN-FM03-R0100	3 x 0,25	3	10	PVC
M8LN-FM03-R0050	3 x 0,25	3	5	PVC
M8LN-FM03-R0030	3 x 0,25	3	3	PVC
M8LN-FM03-R0015	3 x 0,25	3	1,5	PVC
M8LN-FM04-R0100	4 x 0,25	4	10	PVC
M8LN-FM04-R0050	4 x 0,25	4	5	PVC
M8LN-FM04-R0030	4 x 0,25	4	3	PVC
M8LN-FM04-R0015	4 x 0,25	4	1,5	PVC

M8 延長電纜

M8 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8LN-MF03-R0100	3 x 0,25	3	10	PVC
M8LN-MF03-R0050	3 x 0,25	3	5	PVC
M8LN-MF03-R0030	3 x 0,25	3	3	PVC
M8LN-MF03-R0015	3 x 0,25	3	1,5	PVC
M8LN-MF04-R0100	4 x 0,25	4	10	PVC
M8LN-MF04-R0050	4 x 0,25	4	5	PVC
M8LN-MF04-R0030	4 x 0,25	4	3	PVC
M8LN-MF04-R0015	4 x 0,25	4	1,5	PVC

MOTION CONTROL

HIGH PERFORMANCE PUR



10Mio cycles
6.5 x O.D.
600 m/min
60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 特殊聚丙烯	Insulation Special Polypropylene
組合Assembly 以無紡布分層隔離	Levels divided by Non Woven Tape
外護套 特殊 PUR	Outer Sheath PUR
顏色 棕, 藍, 黑, 白	Colour Brown, Blue, Black, White
線徑 (mm) Cable Diameter	
3芯 3.0 / 無隔離 4.0 / 有隔離	3C 3.0 / non-shield 4.0 / shield
4芯 4.5 / 無隔離 5.0 / 有隔離	4C 4.5 / non-shield 5.0 / shield



技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE ≥ 2500 MΩ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 kv acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
Part 6,7 DIELECTRIC STRENGTH

產品特點 - PRODUCT'S FEATURES

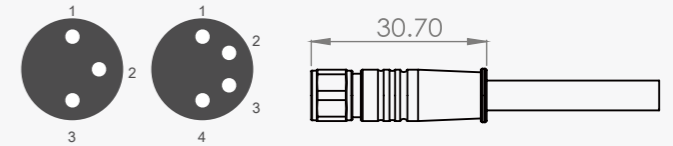
- 耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1
- 無鹵 / HALOGEN FREE
EN 60754-1
- 耐寒 / COLD RESISTANT
EN 60811-1-4
- 耐磨性 / ABRASION RESISTANT
ASTM D 4060
- 抗臭氧 / OZONE RESISTANT
EN 50396 Art 8.1.3
- 抗 UV / UV RESISTANT
HD605 Part. 2.4.20
- 防微生物 / MICROBE RESISTANT
VDE 0282/10
- 耐汙泥 / MUD RESISTANT
NEK 606
- 防水 / WATER RESISTANT
EN 60811-1-3

UL-AWM
STYLE 20233
80° / 1000 V

CE EAC

M8 直型母接頭-裸線

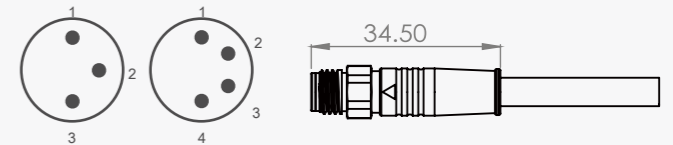
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8N0-F003-P0100	3 x 0,25	3	10	PUR
M8N0-F003-P0050	3 x 0,25	3	5	PUR
M8N0-F003-P0030	3 x 0,25	3	3	PUR
M8N0-F003-P0015	3 x 0,25	3	1,5	PUR
M8N0-F004-P0100	4 x 0,25	4	10	PUR
M8N0-F004-P0050	4 x 0,25	4	5	PUR
M8N0-F004-P0030	4 x 0,25	4	3	PUR
M8N0-F004-P0015	4 x 0,25	4	1,5	PUR

M8 直型公接頭-裸線

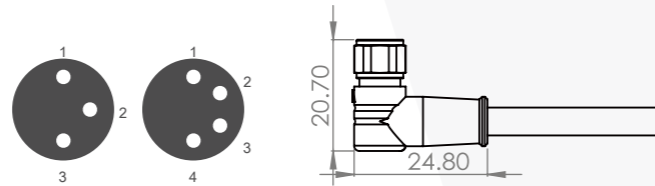
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8N0-M003-P0100	3 x 0,25	3	10	PUR
M8N0-M003-P0050	3 x 0,25	3	5	PUR
M8N0-M003-P0030	3 x 0,25	3	3	PUR
M8N0-M003-P0015	3 x 0,25	3	1,5	PUR
M8N0-M004-P0100	4 x 0,25	4	10	PUR
M8N0-M004-P0050	4 x 0,25	4	5	PUR
M8N0-M004-P0030	4 x 0,25	4	3	PUR
M8N0-M004-P0015	4 x 0,25	4	1,5	PUR

M8 彎型母接頭-裸線

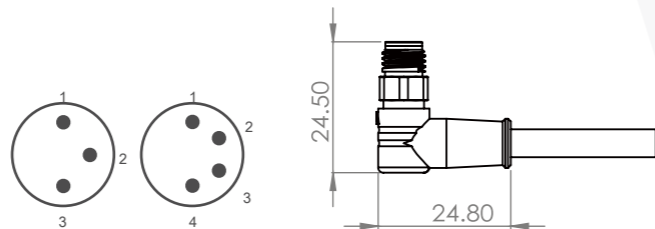
ANGLE SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8L0-F003-P0100	3 x 0,25	3	10	PUR
M8L0-F003-P0050	3 x 0,25	3	5	PUR
M8L0-F003-P0030	3 x 0,25	3	3	PUR
M8L0-F003-P0015	3 x 0,25	3	1,5	PUR
M8L0-F004-P0100	4 x 0,25	4	10	PUR
M8L0-F004-P0050	4 x 0,25	4	5	PUR
M8L0-F004-P0030	4 x 0,25	4	3	PUR
M8L0-F004-P0015	4 x 0,25	4	1,5	PUR

M8 彎型公接頭-裸線

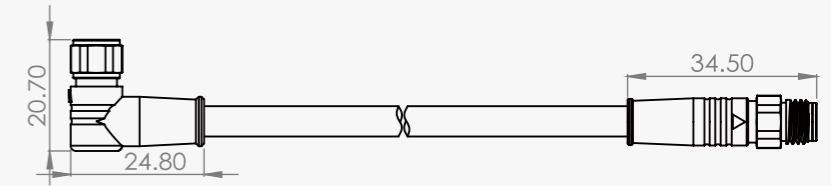
ANGLE SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8L0-M003-P0100	3 x 0,25	3	10	PUR
M8L0-M003-P0050	3 x 0,25	3	5	PUR
M8L0-M003-P0030	3 x 0,25	3	3	PUR
M8L0-M003-P0015	3 x 0,25	3	1,5	PUR
M8L0-M004-P0100	4 x 0,25	4	10	PUR
M8L0-M004-P0050	4 x 0,25	4	5	PUR
M8L0-M004-P0030	4 x 0,25	4	3	PUR
M8L0-M004-P0015	4 x 0,25	4	1,5	PUR

M8 延長電纜

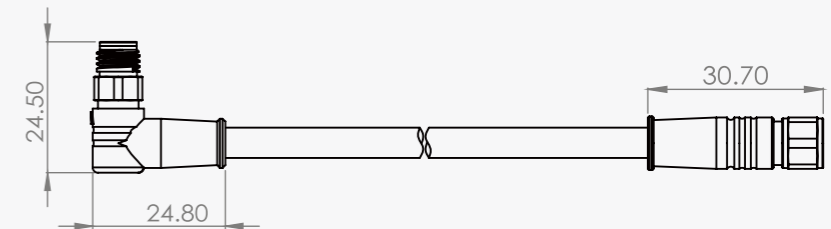
M8 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8LN-FM03-P0100	3 x 0,25	3	10	PUR
M8LN-FM03-P0050	3 x 0,25	3	5	PUR
M8LN-FM03-P0030	3 x 0,25	3	3	PUR
M8LN-FM03-P0015	3 x 0,25	3	1,5	PUR
M8LN-FM04-P0100	4 x 0,25	4	10	PUR
M8LN-FM04-P0050	4 x 0,25	4	5	PUR
M8LN-FM04-P0030	4 x 0,25	4	3	PUR
M8LN-FM04-P0015	4 x 0,25	4	1,5	PUR

M8 延長電纜

M8 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M8LN-MF03-P0100	3 x 0,25	3	10	PUR
M8LN-MF03-P0050	3 x 0,25	3	5	PUR
M8LN-MF03-P0030	3 x 0,25	3	3	PUR
M8LN-MF03-P0015	3 x 0,25	3	1,5	PUR
M8LN-MF04-P0100	4 x 0,25	4	10	PUR
M8LN-MF04-P0050	4 x 0,25	4	5	PUR
M8LN-MF04-P0030	4 x 0,25	4	3	PUR
M8LN-MF04-P0015	4 x 0,25	4	1,5	PUR

MOTION CONTROL

HIGH PERFORMANCE PVC



5^{Mio} cycles
6.5 x O.D.
600 m/min
60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 聚丙烯化合物	Insulation Polypropylene Compounds
線色 棕, 藍, 黑, 白 (黃, 綠)	Colour Code Brown, Blue, Black, White (Yellow, Green)
Assembly All elements are assembled in circular layer in optimal lay length with filler	
外護套 特殊 PVC	Outer Sheath PVC Compound
線徑 (mm) Cable Diameter	
4芯 5.10 / 無隔離 5.60 / 有隔離	4C 5.10 / non-shield 5.60 / shield
5芯 5.50 / 無隔離 6.00 / 有隔離	5C 5.50 / non-shield 6.00 / shield

技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE $\geq 2500 \text{ M}\Omega$ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -40 °C / + 80 °C
動態 / dynamic -25 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 k Ω acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
Part 6,7 DIELECTRIC STRENGTH

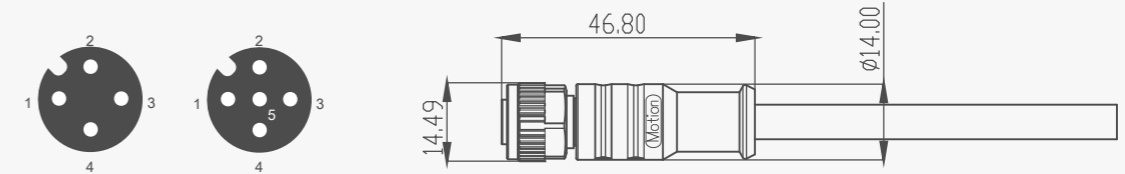
產品特點 - PRODUCT'S FEATURES

- 耐油 / OIL RESISTANT**
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT**
IEC 60332-1-2, UL VW1, FT 1
- 靈活性 / FLEXIBLE**
EN 50289-3-9



M12 直型母接頭-裸線

STRAIGHT SOCKET, FREE CABLE END



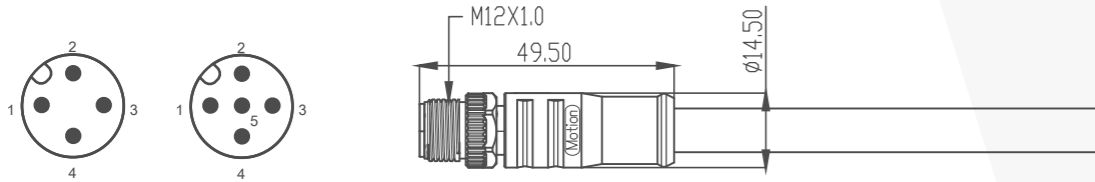
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-F04A-R0100	4 x 0,34	4	10	PVC
M2N0-F04A-R0050	4 x 0,34	4	5	PVC
M2N0-F04A-R0030	4 x 0,34	4	3	PVC
M2N0-F04A-R0015	4 x 0,34	4	1,5	PVC
M2N0-F04A-RE100	4 x 0,34	5	10	PVC with Shield
M2N0-F04A-RE050	4 x 0,34	5	5	PVC with Shield
M2N0-F04A-RE030	4 x 0,34	5	3	PVC with Shield
M2N0-F04A-RE015	4 x 0,34	5	1,5	PVC with Shield
M2N0-F05A-R0100	5 x 0,34	5	10	PVC
M2N0-F05A-R0050	5 x 0,34	5	5	PVC
M2N0-F05A-R0030	5 x 0,34	5	3	PVC
M2N0-F05A-R0015	5 x 0,34	5	1,5	PVC
M2N0-F05A-RE100	5 x 0,34	5	10	PVC with Shield
M2N0-F05A-RE050	5 x 0,34	5	5	PVC with Shield
M2N0-F05A-RE030	5 x 0,34	5	3	PVC with Shield
M2N0-F05A-RE015	5 x 0,34	5	1,5	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 直型公接頭-裸線

STRAIGHT SOCKET, FREE CABLE END



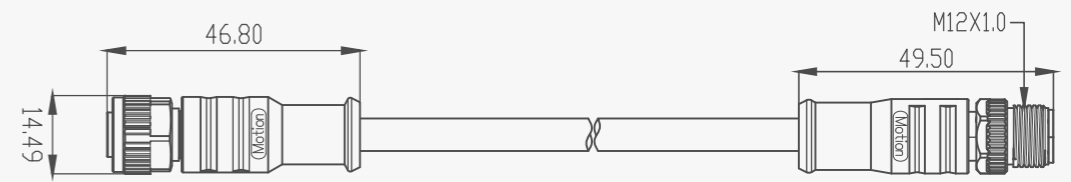
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-M04A-R0100	4 x 0,34	4	10	PVC
M2N0-M04A-R0050	4 x 0,34	4	5	PVC
M2N0-M04A-R0030	4 x 0,34	4	3	PVC
M2N0-M04A-R0015	4 x 0,34	4	1,5	PVC
M2N0-M04A-RE100	4 x 0,34	5	10	PVC with Shield
M2N0-M04A-RE050	4 x 0,34	5	5	PVC with Shield
M2N0-M04A-RE030	4 x 0,34	5	3	PVC with Shield
M2N0-M04A-RE015	4 x 0,34	5	1,5	PVC with Shield
M2N0-M05A-R0100	5 x 0,34	5	10	PVC
M2N0-M05A-R0050	5 x 0,34	5	5	PVC
M2N0-M05A-R0030	5 x 0,34	5	3	PVC
M2N0-M05A-R0015	5 x 0,34	5	1,5	PVC
M2N0-M05A-RE100	5 x 0,34	5	10	PVC with Shield
M2N0-M05A-RE050	5 x 0,34	5	5	PVC with Shield
M2N0-M05A-RE030	5 x 0,34	5	3	PVC with Shield
M2N0-M05A-RE015	5 x 0,34	5	1,5	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 延長電纜 公母連接

EXTEND CABLE, STRAIGHT SOCKET



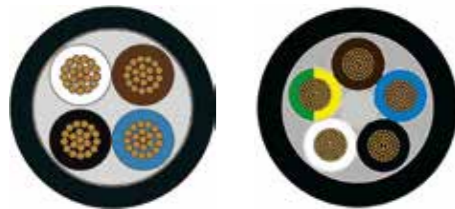
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-FM4A-R0030	4 x 0,34	4	3,0	PVC
M2NN-FM4A-R0015	4 x 0,34	4	1,5	PVC
M2NN-FM4A-R0006	4 x 0,34	4	0,6	PVC
M2NN-FM4A-R0003	4 x 0,34	4	0,3	PVC
M2NN-FM4A-RE030	4 x 0,34	4	3	PVC with Shield
M2NN-FM4A-RE015	4 x 0,34	4	1,5	PVC with Shield
M2NN-FM4A-RE006	4 x 0,34	4	0,6	PVC with Shield
M2NN-FM4A-RE003	4 x 0,34	4	0,3	PVC with Shield
M2NN-FM5A-R0030	5 x 0,34	5	3,0	PVC
M2NN-FM5A-R0015	5 x 0,34	5	1,5	PVC
M2NN-FM5A-R0006	5 x 0,34	5	0,6	PVC
M2NN-FM5A-R0003	5 x 0,34	5	0,3	PVC
M2NN-FM5A-RE030	5 x 0,34	5	3,0	PVC with Shield
M2NN-FM5A-RE015	5 x 0,34	5	1,5	PVC with Shield
M2NN-FM5A-RE006	5 x 0,34	5	0,6	PVC with Shield
M2NN-FM5A-RE003	5 x 0,34	5	0,3	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

MOTION CONTROL

HIGH PERFORMANCE PUR



結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 特殊聚丙烯	Insulation Special Polypropylene
組合Assembly 以無紡布分層隔離	Levels divided by No Woven Tape
外護套 特殊 PUR	Outer Sheath PUR
顏色 棕, 藍, 黑, 白 (黃, 綠)	Colour Brown, Blue, Black, White (Yellow, Green)
線徑 (mmCable Diameter)	
4芯	5.10 / 無隔離 5.60 / 有隔離
5芯	5.50 / 無隔離 6.00 / 有隔離
4C	5.10 / non-shield 5.60 / shield
5C	5.50 / non-shield 6.00 / shield



技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE $\geq 2500 \text{ M}\Omega$ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 kV acc.to EN 50395
依據acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
Part 6,7 DIELECTRIC STRENGTH

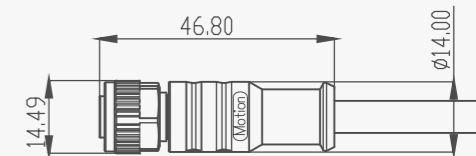
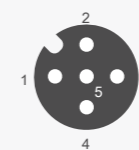
產品特點 - PRODUCT'S FEATURES

- 耐油 / OIL RESISTANT**
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT**
IEC 60332-1-2, UL VW1, FT 1
- 無鹵 / HALOGEN FREE**
EN 60754-1
- 耐寒 / COLD RESISTANT**
EN 60811-1-4
- 耐磨性 / ABRASION RESISTANT**
ASTM D 4060
- 抗臭氧 / OZONE RESISTANT**
EN 50396 Art 8.1.3
- 抗 UV / UV RESISTANT**
HD605 Part. 2.4.20
- 防微生物 / MICROBE RESISTANT**
VDE 0282/10
- 耐汙泥 / MUD RESISTANT**
NEK 606
- 防水 / WATER RESISTANT**
EN 60811-1-3



M12 直型母接頭-裸線

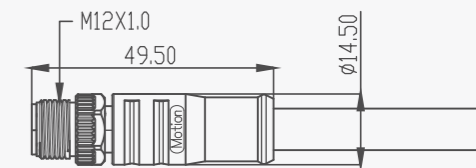
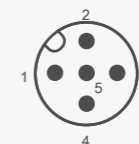
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-F05A-P0100	5 x 0,34	5	10	PUR
M2N0-F05A-P0050	5 x 0,34	5	5	PUR
M2N0-F05A-P0030	5 x 0,34	5	3	PUR
M2N0-F05A-P0015	5 x 0,34	5	1,5	PUR
M2N0-F05A-PE100	5 x 0,34	5	10	PUR with Shield
M2N0-F05A-PE050	5 x 0,34	5	5	PUR with Shield
M2N0-F05A-PE030	5 x 0,34	5	3	PUR with Shield
M2N0-F05A-PE015	5 x 0,34	5	1,5	PUR with Shield

M12 直型公接頭-裸線

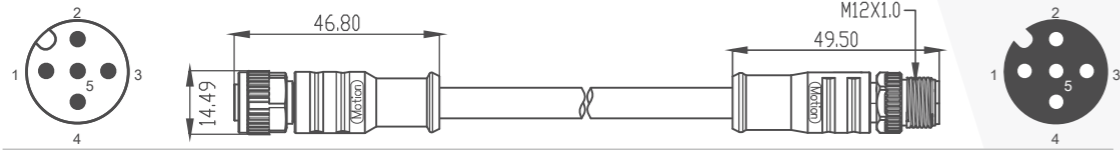
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-M05A-P0100	5 x 0,34	5	10	PUR
M2N0-M05A-P0050	5 x 0,34	5	5	PUR
M2N0-M05A-P0030	5 x 0,34	5	3	PUR
M2N0-M05A-P0015	5 x 0,34	5	1,5	PUR
M2N0-M05A-PE100	5 x 0,34	5	10	PUR with Shield
M2N0-M05A-PE050	5 x 0,34	5	5	PUR with Shield
M2N0-M05A-PE030	5 x 0,34	5	3	PUR with Shield
M2N0-M05A-PE015	5 x 0,34	5	1,5	PUR with Shield

M12 延長電纜 公母連接

LINKING CABLE, STRAIGHT SOCKET



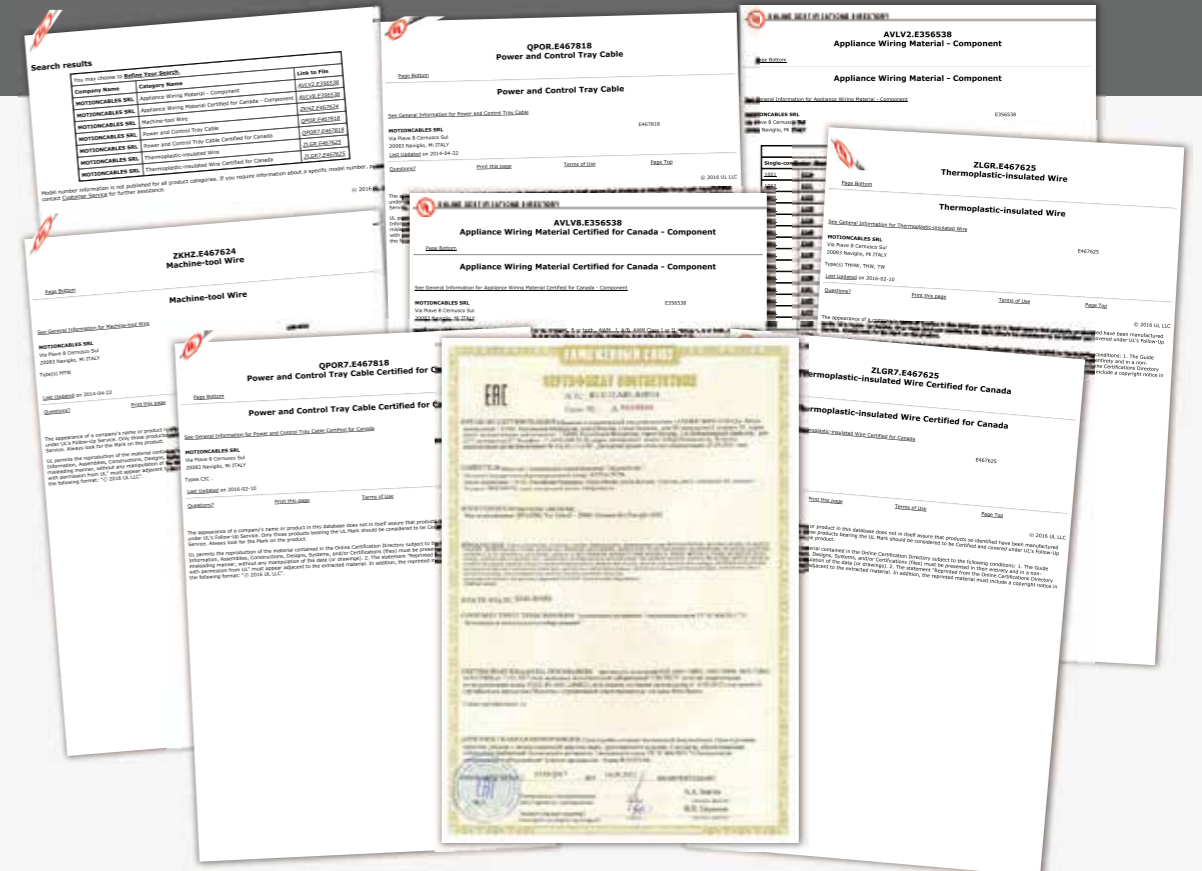
訂購代碼	線徑	針	長度	外背 / 隔離
Order Number	Conductor normal cross section (mm ²)	Pins	Cable length (m)	Jacket / Shield

M2NN-FM5A-P0030	5 x 0,34	5	3,0	PUR
M2NN-FM5A-P0015	5 x 0,34	5	1,5	PUR
M2NN-FM5A-P0006	5 x 0,34	5	0,6	PUR
M2NN-FM5A-P0003	5 x 0,34	5	0,3	PUR
M2NN-FM5A-PE030	5 x 0,34	5	3,0	PUR with Shield
M2NN-FM5A-PE015	5 x 0,34	5	1,5	PUR with Shield
M2NN-FM5A-PE006	5 x 0,34	5	0,6	PUR with Shield
M2NN-FM5A-PE003	5 x 0,34	5	0,3	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

UL LISTING & OTHER APPROVALS



UL and NFPA

UL列出的標記是指在商業和工業環境中用於固定安裝的電纜的一種。列出的電纜不僅必須符合UL標準，而且還必須符合NEC（美國國家電氣法規）標準。

NEC根據正確的電纜安裝和使用情況提供了詳細的法規清單。電纜可用於各種元件、設備、電動工具、機器之間的連接，或用於符合NFPA 79和NFPA 70的結構供電。

根據 UL 列出的規範：

MTW 機床接線	THHW 熱塑性高耐熱性。水
TC 托盤電纜	THWN 熱塑性高濕抗蝕劑。尼龍
PLTC 功率受限托盤電纜	ER 暴露運行
WTTC 風力渦輪盤電纜	DB 直接埋入

AWM電纜的 UL 標記

AWM（設備接線材料的縮寫）包括一系列專用電纜，用於安裝在工業環境中，用於電氣設備、控制櫃和工業機械的連接和供電。AWM不適用於現場佈線電纜。標有AWM的電纜應根據參考樣式確定使用。使用“列出”或“公認”的電纜可以使自動機械或其他電氣設備的生產商立即獲得（如果不是更簡單的）功能程序，即可獲得該產品的“UL認證”。

NFPA

NFPA 79是NEC（國家電氣法規）的一部分，定義了自動機器上使用的電纜類型。它適用於單個組件以及在不同機器上一起運行的組件的配置。NFPA 79的應用包括在最大電壓為600 V的情況下運行的自動機的所有電氣和電子組件。

UL and NFPA marking

The UL Listed refers to a type of cable for fixed installation in both commercial and industrial sectors. The listed cables not only must comply with UL standards, but also be in accordance with the NEC (National Electric Code). The NEC provides a list of detailed rules on the correct installation and use of cables. The cables can be used for connections between the various elements, equipment, electric tools, machines or for the feeding of the structure in accordance with the NFPA 79 and NFPA 70

UL listed codification examples:

MTW Machine Tool Wiring	THHW Thermoplastic High Heat resist. Water
TC Tray Cable	THWN Thermoplastic High Wet resist. Nylon
PLTC Power Limited Tray Cables	ITC Instrumentation Tray Cables
WTTC Wind Turbine Tray Cable	

Marking UL for AWM cables

AWM (abbreviation for Appliance Wiring Material) comprises a series of specific cables for installation in an industrial environment for the connection and the supply of electric instruments, control cabinets and industrial machineries. The AWM does not apply to on-site wiring cables. The cables marked AWM are to be used as determined by the reference style. The use of "listed" or "recognized" cables allows the producer of an automatic machine or other electrical instrument an immediate if not much more simple, functional procedure in obtaining the "UL listing" for that product.

NFPA

NFPA 79 is a section of the NEC (National Electric Code) that defines the types of cables to be used on automatic machines. It applies to individual components and to configurations of components that operate together on different machines. The application of NFPA 79 includes all electrical and electronic components of an automatic machine operating at a maximum voltage of 600 V.

MOTION CONTROL

HIGH PERFORMANCE PUR



結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 聚丙烯化合物	Insulation Polypropylene Compounds
線色 1 st 白/棕 2 nd 3 rd 綠/黃 4 rd 5 rd 灰/粉 6 rd 紅/藍 Assembly 黑/紫	Colour Code 1 st Pair White/Brown 2 nd Pair Green/Yellow 3 rd Pair Grey/Pink 4 rd Pair Red/Blue 5 rd Pair Black/Violet 6 rd Pair Red-Blue/Gray-Pink All elements are assembled in circular layer in optimal lay length with filler
外護套 紅藍/灰粉 特殊 PVC	Outer Sheath PVC Compound
線徑 (mm)C	a b
8芯 7.10 / 有隔離	4C 5.10 / non-shield 5.60 / shield
12芯 8.50 / 有隔離	5C 5.50 / non-shield 6.00 / shield

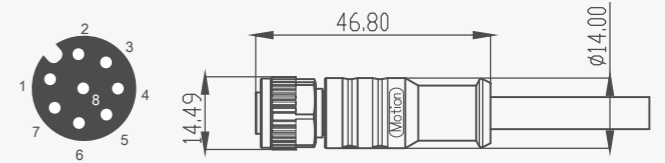
產品特點 - PRODUCTS FEATURES

- 耐油 / OIL RESISTANT**
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT**
IEC 60332-1-2, UL VW1, FT 1
- 無鹵 / HALOGEN FREE**
EN 60754-1
- 耐寒 / COLD RESISTANT**
EN 60811-1-4
- 耐磨性 / ABRASION RESISTANT**
ASTM D 4060
- 抗臭氧 / OZONE RESISTANT**
EN 50396 Art 8.1.3
- 抗 UV / UV RESISTANT**
HD605 Part. 2.4.20
- 防微生物 / MICROBE RESISTANT**
VDE 0282/10
- 耐汙泥 / MUD RESISTANT**
NEK 606
- 防水 / WATER RESISTANT**
EN 60811-1-3



M12 直型母接頭-裸線

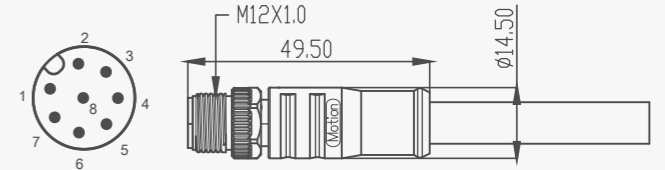
STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-F08A-PE100	8 x 0,34	8	10	PUR with Shield
M2N0-F08A-PE050	8 x 0,34	8	5	PUR with Shield
M2N0-F08A-PE030	8 x 0,34	8	3	PUR with Shield
M2N0-F08A-PE015	8 x 0,34	8	1,5	PUR with Shield

M12 直型公接頭-裸線

STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-M08A-PE100	8 x 0,34	8	10	PUR with Shield
M2N0-M08A-PE050	8 x 0,34	8	5	PUR with Shield
M2N0-M08A-PE030	8 x 0,34	8	3	PUR with Shield
M2N0-M08A-PE015	8 x 0,34	8	1,5	PUR with Shield

技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE ≥ 2500 MΩ acc.to EN 50395 Part 8

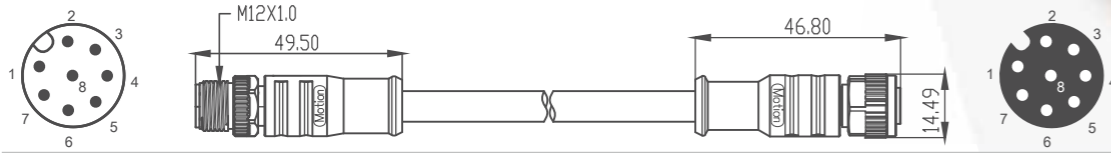
工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 kΩ acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
DIELECTRIC STRENGTH
Part 6,7

M12-8P 延長線PVC

M12-8P EXTEND CABLE PVC

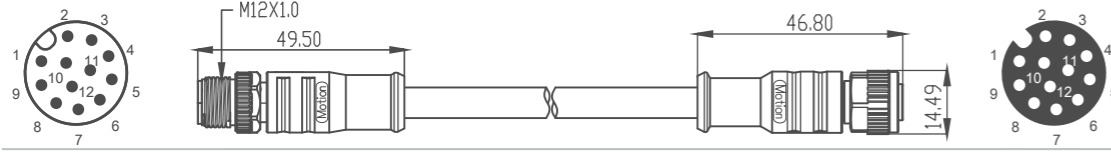


訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
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M2NN-FM8A-R0100	8 x 0,34	8	10	PVC
M2NN-FM8A-R0050	8 x 0,34	8	5	PVC
M2NN-FM8A-R0030	8 x 0,34	8	3	PVC
M2NN-FM8A-R0015	8 x 0,34	8	1,5	PVC
M2NN-FM8A-RE100	8 x 0,34	8	10	PVC with Shield
M2NN-FM8A-RE050	8 x 0,34	8	5	PVC with Shield
M2NN-FM8A-RE030	8 x 0,34	8	3	PVC with Shield
M2NN-FM8A-RE015	8 x 0,34	8	1,5	PVC with Shield

M12-12P 延長線PVC

M12-12P EXTEND CABLE PVC



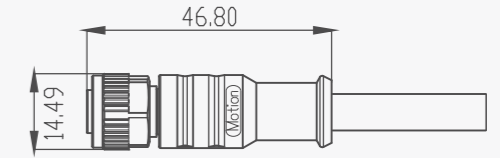
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
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M2NN-FM2A-R0030	12 x 0,14	12	3,0	PVC
M2NN-FM2A-R0015	12 x 0,14	12	1,5	PVC
M2NN-FM2A-R0006	12 x 0,14	12	0,6	PVC
M2NN-FM2A-R0003	12 x 0,14	12	0,3	PVC
M2NN-FM2A-RE030	12 x 0,14	12	3,0	PVC with Shield
M2NN-FM2A-RE015	12 x 0,14	12	1,5	PVC with Shield
M2NN-FM2A-RE006	12 x 0,14	12	0,6	PVC with Shield
M2NN-FM2A-RE003	12 x 0,14	12	0,3	PVC with Shield



M12-8P 延長線PUR

M12-8P EXTEND CABLE PUR

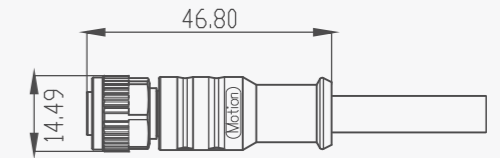


訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
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M2NN-FM2-P100	12 x 0,14	12	10	PUR
M2NN-FM2-P050	12 x 0,14	12	5	PUR
M2NN-FM2-P030	12 x 0,14	12	3	PUR
M2NN-FM2-P015	12 x 0,14	12	1,5	PUR
M2NN-FM2-PE100	12 x 0,14	12	10	PUR with Shield
M2NN-FM2-PE050	12 x 0,14	12	5	PUR with Shield
M2NN-FM2-PE030	12 x 0,14	12	3	PUR with Shield
M2NN-FM2-PE015	12 x 0,14	12	1,5	PUR with Shield

M12-12P 延長線PUR

M12-12P EXTEND CABLE PUR



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
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M2NN-MF2A-P0100	12 x 0,14	12	10	PVC
M2NN-MF2A-P0050	12 x 0,14	12	5	PVC
M2NN-MF2A-P0030	12 x 0,14	12	3	PVC
M2NN-MF2A-P0015	12 x 0,14	12	1,5	PVC
M2NN-MF2A-PE100	12 x 0,14	12	10	PVC with Shield
M2NN-MF2A-PE050	12 x 0,14	12	5	PVC with Shield
M2NN-MF2A-PE030	12 x 0,14	12	3	PVC with Shield
M2NN-MF2A-PE015	12 x 0,14	12	1,5	PVC with Shield

MOTION CONTROL

HIGH PERFORMANCE PVC



5 Mio cycles
6,5 x O.D.
600 m/min
60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 聚丙烯化合物	Insulation Polypropylene Compounds
線色 棕, 藍, 黑, 白 (黃, 綠)	Colour Code Brown, Blue, Black, White (Yellow, Green)
Assembly All elements are assembled in circular layer in optimal lay length with filler	
外護套 特殊 PVC	Outer Sheath PVC Compound
線徑 (mm) Cable Diameter	
4芯 5.10 / 無隔離 5.60 / 有隔離	4C 5.10 / non-shield 5.60 / shield
5芯 5.50 / 無隔離 6.00 / 有隔離	5C 5.50 / non-shield 6.00 / shield

技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE $\geq 2500 \text{ M}\Omega$ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -40 °C / + 80 °C
動態 / dynamic -25 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 k Ω acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
Part 6,7 DIELECTRIC STRENGTH

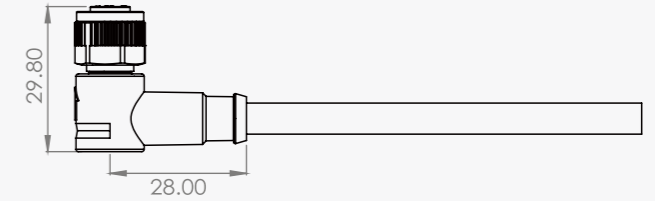
產品特點 - PRODUCT'S FEATURES

- 耐油 / OIL RESISTANT**
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT**
IEC 60332-1-2, UL VW1, FT 1
- 靈活性 / FLEXIBLE**
EN 50289-3-9



M12 彎型母接頭-裸線

ANGLE SOCKET, FREE CABLE END



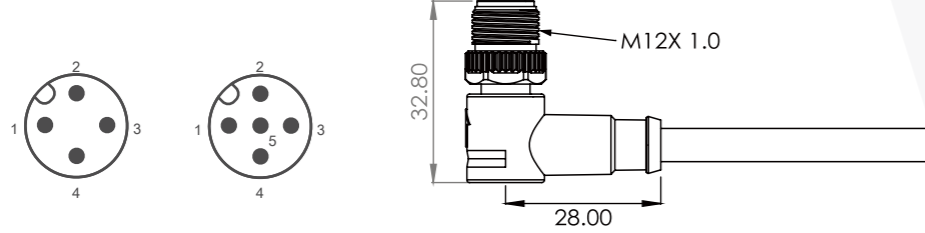
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2L0-F04A-R0100	4 x 0,34	4	10	PVC
M2L0-F04A-R0050	4 x 0,34	4	5	PVC
M2L0-F04A-R0030	4 x 0,34	4	3	PVC
M2L0-F04A-R0015	4 x 0,34	4	1,5	PVC
M2L0-F04A-RE100	4 x 0,34	4	10	PVC with Shield
M2L0-F04A-RE050	4 x 0,34	4	5	PVC with Shield
M2L0-F04A-RE030	4 x 0,34	4	3	PVC with Shield
M2L0-F04A-RE015	4 x 0,34	4	1,5	PVC with Shield
M2L0-F05A-R0100	5 x 0,34	5	10	PVC
M2L0-F05A-R0050	5 x 0,34	5	5	PVC
M2L0-F05A-R0030	5 x 0,34	5	3	PVC
M2L0-F05A-R0015	5 x 0,34	5	1,5	PVC
M2L0-F05A-RE100	5 x 0,34	5	10	PVC with Shield
M2L0-F05A-RE050	5 x 0,34	5	5	PVC with Shield
M2L0-F05A-RE030	5 x 0,34	5	3	PVC with Shield
M2L0-F05A-RE015	5 x 0,34	5	1,5	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 彎型公接頭-裸線

ANGLE SOCKET, FREE CABLE END



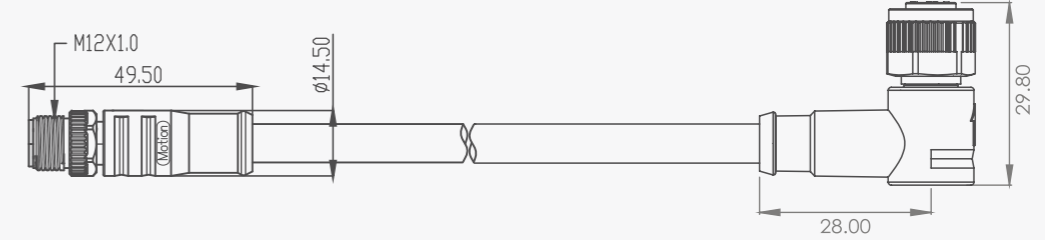
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2L0-M04A-R0100	4 x 0,34	4	10	PVC
M2L0-M04A-R0050	4 x 0,34	4	5	PVC
M2L0-M04A-R0030	4 x 0,34	4	3	PVC
M2L0-M04A-R0015	4 x 0,34	4	1,5	PVC
M2L0-M04A-RE100	4 x 0,34	4	10	PVC with Shield
M2L0-M04A-RE050	4 x 0,34	4	5	PVC with Shield
M2L0-M04A-RE030	4 x 0,34	4	3	PVC with Shield
M2L0-M04A-RE015	4 x 0,34	4	1,5	PVC with Shield
M2L0-M05A-R0100	5 x 0,34	5	10	PVC
M2L0-M05A-R0050	5 x 0,34	5	5	PVC
M2L0-M05A-R0030	5 x 0,34	5	3	PVC
M2L0-M05A-R0015	5 x 0,34	5	1,5	PVC
M2L0-M05A-RE100	5 x 0,34	5	10	PVC with Shield
M2L0-M05A-RE050	5 x 0,34	5	5	PVC with Shield
M2L0-M05A-RE030	5 x 0,34	5	3	PVC with Shield
M2L0-M05A-RE015	5 x 0,34	5	1,5	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 延長電纜 公母連接

M12 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2LN-FM4A-R0030	4 x 0,34	4	3,0	PVC
M2LN-FM4A-R0015	4 x 0,34	4	1,5	PVC
M2LN-FM4A-R0006	4 x 0,34	4	0,6	PVC
M2LN-FM4A-R0003	4 x 0,34	4	0,3	PVC
M2LN-FM4A-RE030	4 x 0,34	4	3,0	PVC with Shield
M2LN-FM4A-RE015	4 x 0,34	4	1,5	PVC with Shield
M2LN-FM4A-RE006	4 x 0,34	4	0,6	PVC with Shield
M2LN-FM4A-RE003	4 x 0,34	4	0,3	PVC with Shield
M2LN-FM5A-R0030	5 x 0,34	5	3,0	PVC
M2LN-FM5A-R0015	5 x 0,34	5	1,5	PVC
M2LN-FM5A-R0006	5 x 0,34	5	0,6	PVC
M2LN-FM5A-R0003	5 x 0,34	5	0,3	PVC
M2LN-FM5A-RE030	5 x 0,34	5	3,0	PVC with Shield
M2LN-FM5A-RE015	5 x 0,34	5	1,5	PVC with Shield
M2LN-FM5A-RE006	5 x 0,34	5	0,6	PVC with Shield
M2LN-FM5A-RE003	5 x 0,34	5	0,3	PVC with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

MOTION CONTROL

HIGH PERFORMANCE PUR



10Mio cycles 6.5 x O.D. 600 m/min 60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper						
絕緣層 特殊聚丙烯	Insulation Special Polypropylene						
組合Assembly 以無紡布分層隔離	Levels divided by No Woven Tape						
外護套 特殊 PUR	Outer Sheath PUR						
顏色 棕, 藍, 黑, 白 (黃, 綠)	Colour Brown, Blue, Black, White (Yellow, Green)						
線徑 (mmCable Diameter)							
4芯	<table border="1"> <tr> <td>5.10 / 無隔離</td> <td>4C</td> <td>5.10 / non-shield</td> </tr> <tr> <td>5.60 / 有隔離</td> <td></td> <td>5.60 / shield</td> </tr> </table>	5.10 / 無隔離	4C	5.10 / non-shield	5.60 / 有隔離		5.60 / shield
5.10 / 無隔離	4C	5.10 / non-shield					
5.60 / 有隔離		5.60 / shield					
5芯	<table border="1"> <tr> <td>5.50 / 無隔離</td> <td>5C</td> <td>5.50 / non-shield</td> </tr> <tr> <td>6.00 / 有隔離</td> <td></td> <td>6.00 / shield</td> </tr> </table>	5.50 / 無隔離	5C	5.50 / non-shield	6.00 / 有隔離		6.00 / shield
5.50 / 無隔離	5C	5.50 / non-shield					
6.00 / 有隔離		6.00 / shield					



技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE 300 V

絕緣電阻
INSULATION RESISTANCE ≥ 2500 MΩ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

電阻
ELECTRICAL RESISTANCE 1.5 kv acc.to EN 50395
依據acc.to IEC 60228 Cl.6;
EN 50395 Part 5

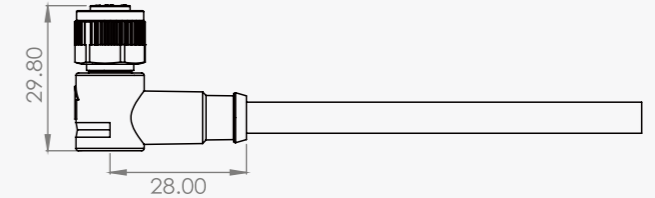
介電強度
Part 6,7 DIELECTRIC STRENGTH

產品特點 - PRODUCT'S FEATURES

- 耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1
- 無鹵 / HALOGEN FREE
EN 60754-1
- 耐寒 / COLD RESISTANT
EN 60811-1-4
- 耐磨性 / ABRASION RESISTANT
ASTM D 4060
- 抗臭氣 / OZONE RESISTANT
EN 50396 Art 8.1.3
- 抗 UV / UV RESISTANT
HD605 Part. 2.4.20
- 防微生物 / MICROBE RESISTANT
VDE 0282/10
- 耐汙泥 / MUD RESISTANT
NEK 606
- 防水 / WATER RESISTANT
EN 60811-1-3

M12 彎型母接頭-裸線

ANGLE SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2L0-F04A-P0030	4 x 0,34	4	3,0	PUR
M2L0-F04A-P0015	4 x 0,34	4	1,5	PUR
M2L0-F04A-P0006	4 x 0,34	4	0,6	PUR
M2L0-F04A-P0003	4 x 0,34	4	0,3	PUR
M2L0-F04A-PE030	4 x 0,34	4	3,0	PUR with Shield
M2L0-F04A-PE015	4 x 0,34	4	1,5	PUR with Shield
M2L0-F04A-PE006	4 x 0,34	4	0,6	PUR with Shield
M2L0-F04A-PE003	4 x 0,34	4	0,3	PUR with Shield
M2L0-F05A-P0030	5 x 0,34	5	3,0	PUR
M2L0-F05A-P0015	5 x 0,34	5	1,5	PUR
M2L0-F05A-P0006	5 x 0,34	5	0,6	PUR
M2L0-F05A-P0003	5 x 0,34	5	0,3	PUR
M2L0-F05A-PE030	5 x 0,34	5	3,0	PUR with Shield
M2L0-F05A-PE015	5 x 0,34	5	1,5	PUR with Shield
M2L0-F05A-PE006	5 x 0,34	5	0,6	PUR with Shield
M2L0-F05A-PE003	5 x 0,34	5	0,3	PUR with Shield

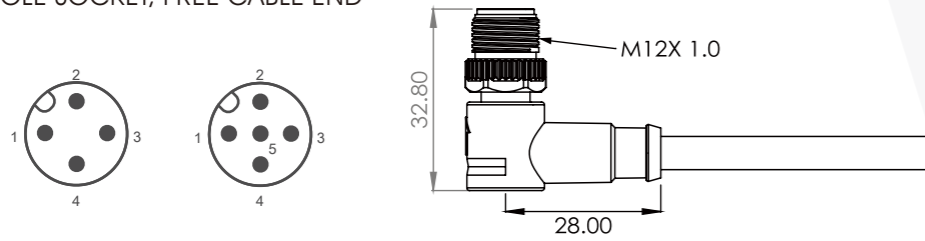
※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.



M12 彎型公接頭-裸線

ANGLE SOCKET, FREE CABLE END



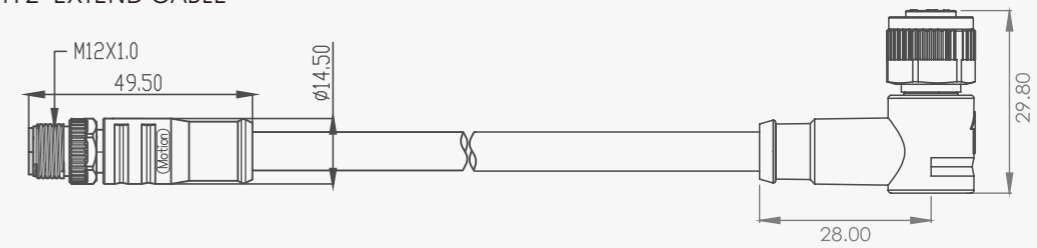
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2L0-M04A-P0100	4 x 0,34	4	10	PUR
M2L0-M04A-P0050	4 x 0,34	4	5	PUR
M2L0-M04A-P0030	4 x 0,34	4	3	PUR
M2L0-M04A-P0015	4 x 0,34	4	1,5	PUR
M2L0-M04A-PE100	4 x 0,34	4	10	PUR with Shield
M2L0-M04A-PE050	4 x 0,34	4	5	PUR with Shield
M2L0-M04A-PE030	4 x 0,34	4	3	PUR with Shield
M2L0-M04A-PE015	4 x 0,34	4	1,5	PUR with Shield
M2L0-M05A-P0100	5 x 0,34	5	10	PUR
M2L0-M05A-P0050	5 x 0,34	5	5	PUR
M2L0-M05A-P0030	5 x 0,34	5	3	PUR
M2L0-M05A-P0015	5 x 0,34	5	1,5	PUR
M2L0-M05A-PE100	5 x 0,34	5	10	PUR with Shield
M2L0-M05A-PE050	5 x 0,34	5	5	PUR with Shield
M2L0-M05A-PE030	5 x 0,34	5	3	PUR with Shield
M2L0-M05A-PE015	5 x 0,34	5	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 延長電纜 公母連接

M12 EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2LN-FM4A-P0030	4 x 0,34	4	3,0	PUR
M2LN-FM4A-P0015	4 x 0,34	4	1,5	PUR
M2LN-FM4A-P0006	4 x 0,34	4	0,6	PUR
M2LN-FM4A-P0003	4 x 0,34	4	0,3	PUR
M2LN-FM4A-PE030	4 x 0,34	4	3,0	PUR with Shield
M2LN-FM4A-PE015	4 x 0,34	4	1,5	PUR with Shield
M2LN-FM4A-PE006	4 x 0,34	4	0,6	PUR with Shield
M2LN-FM4A-PE003	4 x 0,34	4	0,3	PUR with Shield
M2LN-FM5A-P0030	5 x 0,34	5	3,0	PUR
M2LN-FM5A-P0015	5 x 0,34	5	1,5	PUR
M2LN-FM5A-P0006	5 x 0,34	5	0,6	PUR
M2LN-FM5A-P0003	5 x 0,34	5	0,3	PUR
M2LN-FM5A-PE030	5 x 0,34	5	3,0	PUR with Shield
M2LN-FM5A-PE015	5 x 0,34	5	1,5	PUR with Shield
M2LN-FM5A-PE006	5 x 0,34	5	0,6	PUR with Shield
M2LN-FM5A-PE003	5 x 0,34	5	0,3	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

MOTION CONTROL

HIGH PERFORMANCE PUR



10^{Mio} cycles
6.5 x O.D.
600 m/min
60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體 超柔裸銅	Conductor Extra Flexible Bare Copper
絕緣層 特殊聚丙烯	Insulation Special Polypropylene
組合Assembly 以無紡布分層隔離	Levels divided by No Woven Tape
外護套 特殊 PUR	Outer Sheath PUR
顏色 黑1, 黑2, 黑3, 黃/綠	Colour Black1, 2, 3, Yellow / Green
線徑 (mmCable Diameter)	
4芯 8.70 / 有隔離	4C 8.70 / shield

技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE
1000 V



絕緣電阻
INSULATION RESISTANCE ≥ 2500 MΩ acc.to EN 50395 Part 8

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C



電阻
ELECTRICAL RESISTANCE 1.5 kV acc.to EN 50395
依據 acc.to IEC 60228 Cl.6;
EN 50395 Part 5

介電強度
DIELECTRIC STRENGTH
Part 6,7

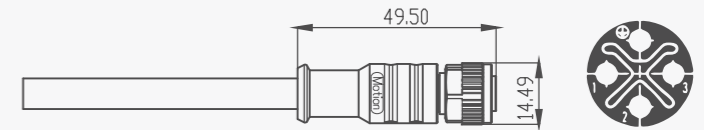
產品特點 - PRODUCT'S FEATURES

- 耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581
- 阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1
- 無鹵 / HALOGEN FREE
EN 60754-1
- 耐寒 / COLD RESISTANT
EN 60811-1-4
- 耐磨性 / ABRASION RESISTANT
ASTM D 4060
- 抗臭氧 / OZONE RESISTANT
EN 50396 Art 8.1.3
- 抗 UV / UV RESISTANT
HD605 Part. 2.4.20
- 防微生物 / MICROBE RESISTANT
VDE 0282/10
- 耐汙泥 / MUD RESISTANT
NEK 606
- 防水 / WATER RESISTANT
EN 60811-1-3



M12-S型 連接線

M12-S TYPE STRAIGHT SOCKET



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2N0-F04S-PE100	4 x 1,5	4	10	PUR with Shield
M2N0-F04S-PE050	4 x 1,5	4	5	PUR with Shield
M2N0-F04S-PE030	4 x 1,5	4	3	PUR with Shield
M2N0-F04S-PE015	4 x 1,5	4	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

MOTION BUS PROFINET®

HIGH PERFORMANCE PUR



結構特點 - CONSTRUCTION FEATURE

導體	Conductor
超柔裸銅	Extra Flexible Bare Copper
絕緣層	Insulation
聚乙烯	Polythylene
組合Assembly	
集中成方形	Stranded to Quad
內護套	Inner Sheath
熱塑型化合物	Thermoplastic Compound
第1層 屏蔽	1st Shield
複合鋁箔膠帶	AL / PET Tape
第2層 屏蔽	2st Shield
鍍錫銅絲編織 O.C. ≥ 85%	Tinned Copper Wire Braid O.C. ≥ 85%
外護套	Outer Sheath
PUR	PUR
顏色	Colour
綠色 - RAL 6018	Green - RAL 6018

技術數據 - TECHNICAL DATA

特性阻抗
IMPEDANCE 10 0 Ω

工作電壓
OPERATING VOLTAGE 0 30 V

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

絕緣電阻
INSULATION RESISTANCE ≥ 20 MΩ

電阻
ELECTRICAL RESISTANCE 見表 - See table

標稱電容
NOMINAL CAPACITANCE 見表 - See table

介電強度
DIELECTRIC STRENGTH
1.5 kV_{ac} to EN 50395 Part 8

10^{Mio} cycles
6,5 x O.D.
600 m/min
60 m/s²

衰減值 - ATTENUATION 22 AWG/MHz

衰減值	dB/100 m
1.0	≤ 2,1
4.0	≤ 4,1
10.0	≤ 6,5
16.0	≤ 8,3
20.0	≤ 9,3
31.5	≤ 11,7
62.5	≤ 17,0
100.0	≤ 22,0

產品特點 - PRODUCT'S FEATURES

耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581

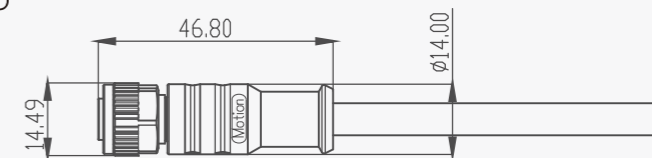
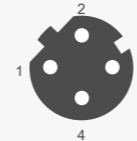
阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1

無鹵 / HALOGEN FREE
EN 60754-1



M12 直型母接頭-裸線

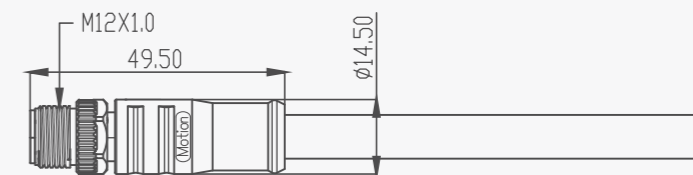
STRAIGHT SOCKET, FREE CABLE END



訂購代碼	線徑	針	長度	外背 / 隔離
Order Number	Conductor normal cross section (mm ²)	Pins	Cable length (m)	Jacket / Shield
M2N0-F04D-PE100	4 x 0,34	4	10	PUR with Shield
M2N0-F04D-PE050	4 x 0,34	4	5	PUR with Shield
M2N0-F04D-PE030	4 x 0,34	4	3	PUR with Shield
M2N0-F04D-PE015	4 x 0,34	4	1,5	PUR with Shield

M12 直型公接頭-裸線

STRAIGHT SOCKET, FREE CABLE END



訂購代碼	線徑	針	長度	外背 / 隔離
Order Number	Conductor normal cross section (mm ²)	Pins	Cable length (m)	Jacket / Shield
M2N0-M04D-PE100	4 x 0,34	4	10	PUR with Shield
M2N0-M04D-PE050	4 x 0,34	4	5	PUR with Shield
M2N0-M04D-PE030	4 x 0,34	4	3	PUR with Shield
M2N0-M04D-PE015	4 x 0,34	4	1,5	PUR with Shield

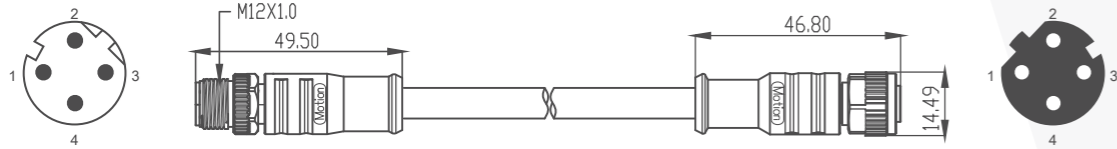
※ 另需其他長度或客製規格，歡迎與我們洽詢。

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M12 延長電纜 公母連接

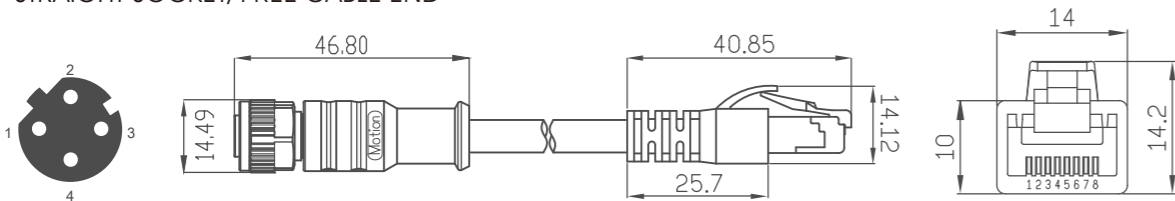
LINKING CABLE, STRAIGHT SOCKET



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-FM4D-PE030	4 x 0,34	4	3,0	PUR with Shield
M2NN-FM4D-PE015	4 x 0,34	4	1,5	PUR with Shield
M2NN-FM4D-PE006	4 x 0,34	4	0,6	PUR with Shield
M2NN-FM4D-PE003	4 x 0,34	4	0,3	PUR with Shield

M12 D code Female-RJ45

STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-FJ4D-PE100	4 x 0,34	4	10	PUR with Shield
M2NN-FJ4D-PE050	4 x 0,34	4	5	PUR with Shield
M2NN-FJ4D-PE030	4 x 0,34	4	3	PUR with Shield
M2NN-FJ4D-PE015	4 x 0,34	4	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

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動態測試中心

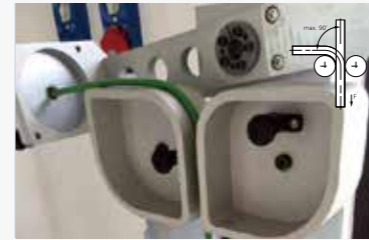
DYNAMIC TEST'S CENTRE

交替彎曲 (搖擺測試) - Alternate Bending (Tick-Tock)

直徑範圍 - Ø Diameter Range	樣品長度 Test length	彎曲角度 Rotation Angle
5 - 50 mm	20 - 100 mm	± 135°

測試類型規定，電纜要根據同一電纜上的不同負載參數經受彎曲狀態（每個彎曲狀態都視為一個循環）。最大拉伸載荷為3000N。最大電纜直徑為50mm。測試近似於DI VDL 0281 第2部分。

The type of test requires that the cable is subjected to a regime of push ups (each of which is considered one cycle) according to different loading parameters on the same. The maximum tensile load is 3000N. The maximum cable diameter is 50mm. Test similar to DIN VDE 0281 Part 2.

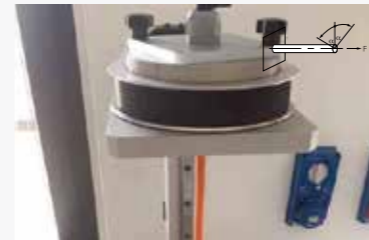


單/束 電纜扭力測試 - Single/Bunch cables torsion test

直徑範圍 - Ø Diameter Range	旋轉角度 Rotation Angle	樣品長度 Test length
5 - 50 mm	± 540°	1000 mm
5 - 50 mm	± 360°	300 mm

電纜（或電纜束）在受到拉力（F）的同時根據左右角度旋轉，每個完整的往復運動都被視為一個週期。

The cable (or bundle of cables) is rotated according to the angle to the right and to the left while undergoes a pulling force (F). Each full reciprocating movement is considered one cycle.



組合式主動撓曲-扭轉測試 - Combined active flex-torsion test

運程 Run	加速度 Acceleration	速度 Speed
5 m	4 G	400 m/min.

使被測電纜樣品以不同的速度以不同的加速度（有時甚至是突然的）行進，以模擬牽引、扭轉和彎曲的操作。電纜的一部分固定在重物上，其餘部分通過兩個滑輪穿過。每次運行均視為一個循環。

The sample cable in test is made travelling at different speeds with different accelerations (also sometimes sudden) for simulating an operation of traction, torsion and bending. A portion of the cable is secured to a weight and the rest is passed through two pulleys. Each stroke is considered a cycle.



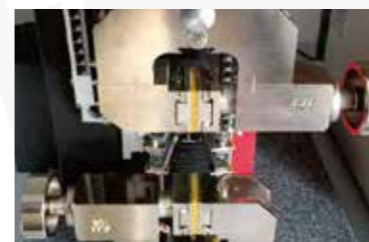
拖鏈測試中的生命週期 - Lifecycles in drag chain test

運程 Run	加速度 Acceleration	速度 Speed
2 m	6 G	600 m/min.
5 m	4 G	400 m/min.
13 m	2 G	300 m/min.
110 m	0,5 G	100 m/min.



拉力測試 - Pulling test

直徑範圍 - Ø Diameter Range	最大拉力 Max Pull Force
10 - 50 mm	5 T



MOTION BUS ETHERNET™ Cat 5e

TIA/EIA Electronic Industries Alliance TIA/EIA 568B.2



10^{Mio} cycles 6,5 x O.D.

600 m/min 60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體	Conductor
超柔裸銅	Extra Flexible Bare Copper
絕緣層	Insulation
聚乙烯	Polythylene
第1層 屏蔽	1st Shield
複合鋁箔膠帶	ALU / PET Tape
第2層 屏蔽	2st Shield
鍍錫銅絲編織 O.C. ≥ 85%	Tinned Copper Wire Braid O.C. ≥ 85%
外護套	Outer Sheath
PUR	PUR
顏色	Colour
綠色 - RAL 6018	Green - RAL 6018

衰減值 - ATTENUATION

MHz	22 AWG dB/100 m	24 AWG dB/100 m	26 AWG dB/100 m
1.0	≤ 2,1	≤ 2,9	≤ 3,2
4.0	≤ 4,1	≤ 5,2	≤ 6,0
10.0	≤ 6,5	≤ 8,0	≤ 9,5
16.0	≤ 8,3	≤ 10,2	≤ 12,1
20.0	≤ 9,3	≤ 11,5	≤ 13,5
31.25	≤ 11,7	≤ 14,5	≤ 17,1
62.5	≤ 17,0	≤ 21,2	≤ 24,8
100.0	≤ 22,0	≤ 26,9	≤ 32,0



技術數據 - TECHNICAL DATA

V 工作電壓
OPERATING VOLTAGE
30 V

TEMPERATURES
工作溫度
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

DIELECTRIC STRENGTH
介電強度
1.5 kv acc.to EN 50395
Part 6,7

INSULATION RESISTANCE
絕緣電阻
≥ 1GΩ acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE
電阻
見表 - See table

IMPEDANCE
特性阻抗
100 Ω

NOMINAL CAPACITANCE
標稱電容
見表 - See table

產品特點 - PRODUCT'S FEATURES

耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581

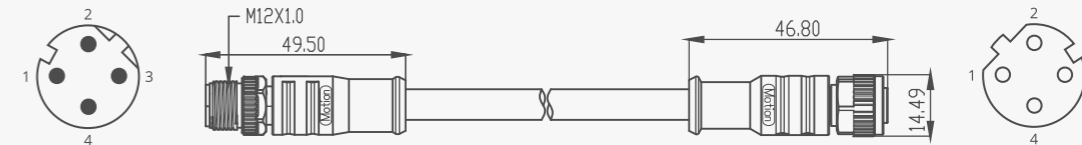
阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1

無鹵 / HALOGEN FREE
EN 60754-1



M12 D 延長電纜 公母連接

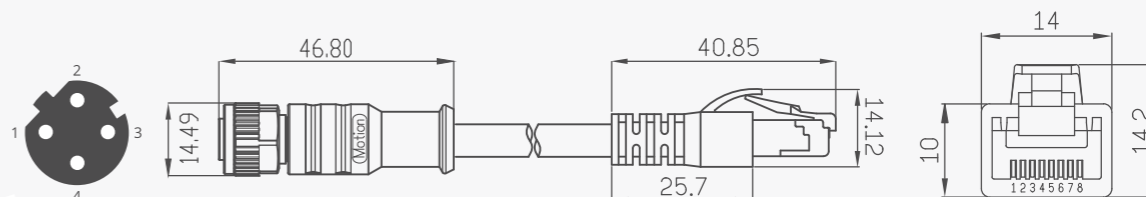
M12 D-TYPE EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-FM4D-C5-PE100	4 x 0,34	4	10	PUR with Shield
M2NN-FM4D-C5-PE050	4 x 0,34	4	5	PUR with Shield
M2NN-FM4D-C5-PE030	4 x 0,34	4	3	PUR with Shield
M2NN-FM4D-C5-PE015	4 x 0,34	4	1,5	PUR with Shield

M12 D 型母接頭-RJ45

M12 D-TYPE EXTEND CABLE-RJ45



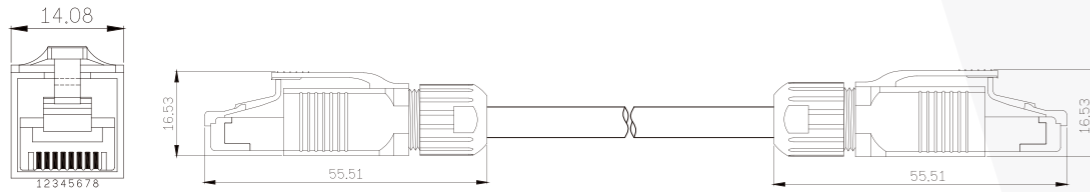
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-MJ4D-C5-PE100	4 x 0,34	4	10	PUR with Shield
M2NN-MJ4D-C5-PE050	4 x 0,34	4	5	PUR with Shield
M2NN-MJ4D-C5-PE030	4 x 0,34	4	3	PUR with Shield
M2NN-MJ4D-C5-PE015	4 x 0,34	4	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 RJ45 - RJ45 Nylon

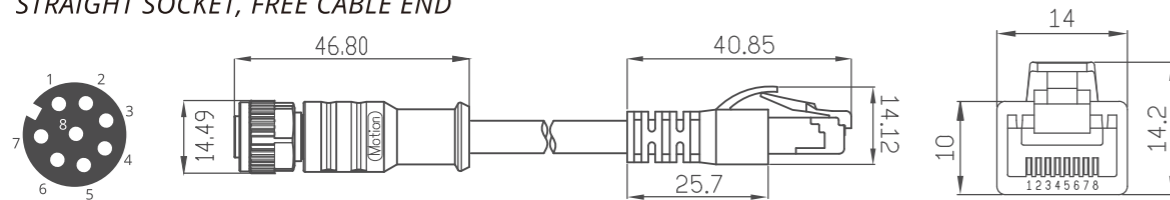
LINKING CABLE, STRAIGHT SOCKET



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJN-C5-PE030	8 x 0,34	8	3,0	PUR with Shield
N-JJN-C5-PE015	8 x 0,34	8	1,5	PUR with Shield
N-JJN-C5-PE006	8 x 0,34	8	0,6	PUR with Shield
N-JJN-C5-PE003	8 x 0,34	8	0,3	PUR with Shield

M12 A code - RJ45

STRAIGHT SOCKET, FREE CABLE END



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M12N-FJ8A-C5-PE100	8 x 0,34	8	10	PUR with Shield
M12N-FJ8A-C5-PE050	8 x 0,34	8	5	PUR with Shield
M12N-FJ8A-C5-PE030	8 x 0,34	8	3	PUR with Shield
M12N-FJ8A-C5-PE015	8 x 0,34	8	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

恆定的品質

HESHENG CONSTANT QUALITY

禾盛追求始終如一的質量目標。為此，我們在新地點創建並開發了一個特定的測試實驗室。

Motion實驗室是一切都必須遵循絕對精度和可靠性概念的地方。我們的控制過程非常嚴格，並且對最終產品、原材料和生產過程進行控制，以確保長期提供最高質量的產品。

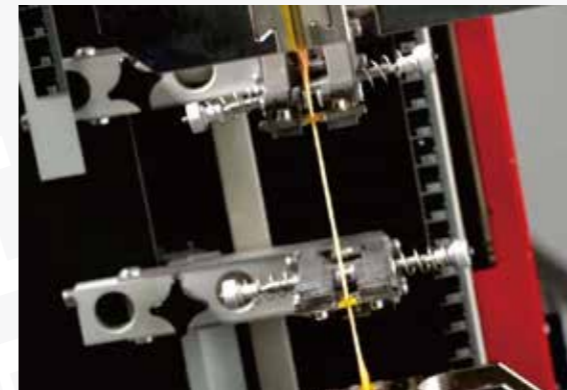
我們將近90%的資源再投資於收購專業人才，創新的分析方法，尋找新的或經過改進的原材料，這些使我們能夠通過不斷改進的產品來支持現有客戶，同時還將我們的業務範圍擴展到新的工業領域。

HESHENG pursues a goal of consistent quality.

To reach it, we have created and developed a specific test laboratory located in our new location.

The MOTION LAB is the place where everything has to follow a concept of absolute precision and reliability. Our control processes are rigorous and are carried out on finished products, raw materials and on the production process with the aim of ensuring over time the highest quality products.

Our resources - nearly 90% - are reinvested in the acquisition of specialized personnel, innovative ways of analysis, looking for new or ameliorated raw materials which allow us to support existing customers with products in continuous improvement, but also expand our coverage of activities to new industry sectors.



MOTION BUS ETHERNET™ Cat 6

HIGH PERFORMANCE PUR



10^{Mio} cycles
6,5 x O.D.

300 m/min
20 m/s²

結構特點 - CONSTRUCTION FEATURES

導體	Conductor
超柔裸銅	Extra Flexible Bare Copper
絕緣層	Insulation
聚乙烯	Polythylene
第1層 屏蔽	1st Shield
複合鋁箔膠帶	ALU / PET Tape
第2層 屏蔽	2st Shield
鍍錫銅絲編織 O.C. ≥ 85%	Tinned Copper Wire Braid O.C. ≥ 85%
外護套	Outer Sheath
PUR	PUR
顏色	Colour
綠色 - RAL 6018	Green - RAL 6019

衰減值 - ATTENUATION

MHz	24 AWG	26 AWG
	dB/100 m	dB/100 m
1.0	≤ 2,9	≤ 3,2
4.0	≤ 5,2	≤ 6,0
10.0	≤ 8,0	≤ 9,5
16.0	≤ 10,2	≤ 12,1
20.0	≤ 11,5	≤ 13,5
31.25	≤ 14,5	≤ 17,1
62.5	≤ 21,2	≤ 24,8
100.0	≤ 26,9	≤ 32,0
155.52	≤ 34,0	≤ 39,1
200	≤ 39,7	≤ 44,8
250	≤ 44,9	≤ 50,7

技術數據 - TECHNICAL DATA

V 工作電壓
OPERATING VOLTAGE

300 V

TEMPERATURES
工作溫度

靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

DIELECTRIC STRENGTH
介電強度
1.5 kv acc.to EN 50395
Part 6,7

INSULATION RESISTANCE
絕緣電阻
≥ 1GΩ acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE
電阻
見表 - See table

IMPEDANCE
特性阻抗
100 Ω

NOMINAL CAPACITANCE
標稱電容
見表 - See table

產品特點 - PRODUCT'S FEATURES

O-V 耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581

F-III 阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1

HF 無鹵 / HALOGEN FREE
EN 60754-1

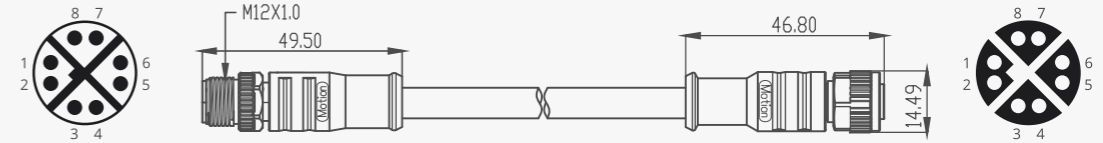


UL-AWM
STYLE 2464
80° / 300 V



M12-X型 延長線

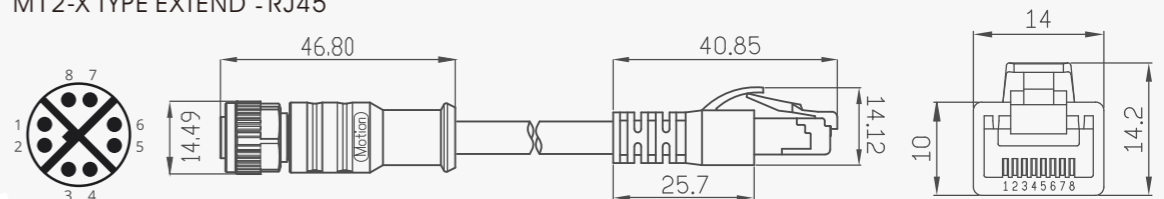
M12-X TYPE EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-MF8X-C6-PE100	8 x 0,34	8	10	PUR with Shield
M2NN-MF8X-C6-PE050	8 x 0,34	8	5	PUR with Shield
M2NN-MF8X-C6-PE030	8 x 0,34	8	3	PUR with Shield
M2NN-MF8X-C6-PE015	8 x 0,34	8	1,5	PUR with Shield

M12-X型 連接線-RJ45

M12-X TYPE EXTEND - RJ45



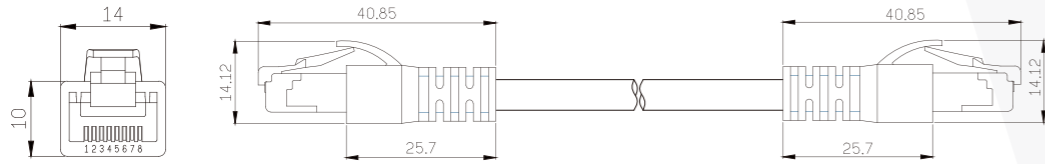
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M2NN-MJ8X-C6-PE100	8 x 0,34	8	10	PUR with Shield
M2NN-MJ8X-C6-PE050	8 x 0,34	8	5	PUR with Shield
M2NN-MJ8X-C6-PE030	8 x 0,34	8	3	PUR with Shield
M2NN-MJ8X-C6-PE015	8 x 0,34	8	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

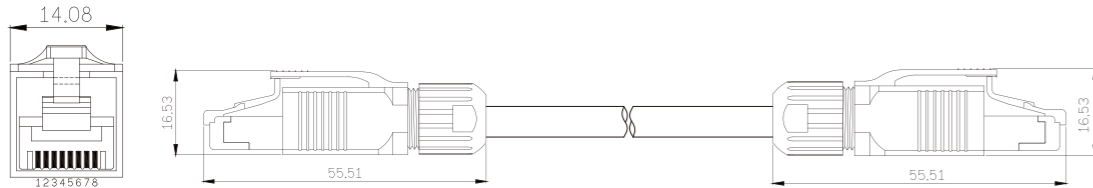


M12 RJ45 - RJ45 Moulding



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJ-C7-PE030	8 x 0,34	8	3,0	PUR with Shield
N-JJ-C7-PE030	8 x 0,34	8	1,5	PUR with Shield
N-JJ-C7-PE030	8 x 0,34	8	0,6	PUR with Shield
N-JJ-C7-PE030	8 x 0,34	8	0,3	PUR with Shield

M12 RJ45 - RJ45 Nylon

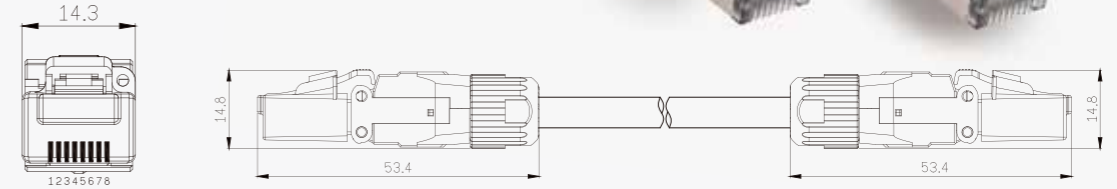


訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJN-C7-PE100	8 x 0,34	8	10	PUR with Shield
N-JJN-C7-PE050	8 x 0,34	8	5	PUR with Shield
N-JJN-C7-PE030	8 x 0,34	8	3	PUR with Shield
N-JJN-C7-PE015	8 x 0,34	8	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 RJ45 - RJ45 Metal



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJM-C7-PE030	8 x 0,34	8	3,0	PUR with Shield
N-JJM-C7-PE015	8 x 0,34	8	1,5	PUR with Shield
N-JJM-C7-PE006	8 x 0,34	8	0,6	PUR with Shield
N-JJM-C7-PE003	8 x 0,34	8	0,3	PUR with Shield

主要測試方法簡介

VISUAL RECAP OF MAIN TEST'S METHODS



機械測試
MECHANICAL TEST
Tensile & Elongation
拉伸與伸長率
IEC 60811 - DIN 53504
ASTM D-412 - UL 1581



低溫測試
LOW TEMPERATURE TEST
Cold Elongation Test
冷延伸測試
IEC 60811- UL 1581



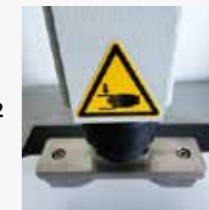
環境測試
ENVIRONMENTAL TEST
Air Oven Aging Resistance
空氣烘箱抗老化性
IEC 60811 - UL 1581



低溫測試
LOW TEMPERATURE TEST
Cold Impact & Bend Test
冷沖擊和彎曲測試
IEC 60811- UL 1581



環境測試
ENVIRONMENTAL TEST
Fluids Resistance
抗流體性
IEC 60811 - UL 1581 - VDE 0472
CNOMO E.03.40.150



機械測試
MECHANICAL TEST
Run Impact Test
運行沖擊測試
IEC 60811- UL 1581

MOTION BUS ETHERNET™ Cat 7



10^{Mio} cycles
6.5 x O.D.
600 m/min
60 m/s²

結構特點 - CONSTRUCTION FEATURES

導體	Conductor
超柔裸銅	Extra Flexible Bare Copper
絕緣層	Insulation
泡沫聚烯	Polythylene
第1層 屏蔽	1st Shield
複合鋁箔膠帶	ALU / PET Tape
第2層 屏蔽	2st Shield
鍍錫銅絲編織 O.C. ≥ 85%	Tinned Copper Wire Braid O.C. ≥ 85%
外護套	Outer Sheath
PUR	PUR
顏色	Colour
綠色 - RAL 6018	Green - RAL 6019

衰減值 - ATTENUATION

22 AWG		22 AWG	
MHz	dB/100 m	MHz	dB/100 m
1.0	≤ 2,1	155.0	≤ 36,0
4.0	≤ 4,1	250.0	≤ 46,5
10.0	≤ 6,5	500.0	≤ 67,9
16.0	≤ 8,3	600.0	≤ 75,1
20.0	≤ 9,3	600.0	≤ 85,2
31.25	≤ 11,7		
62.5	≤ 17,0		
100.0	≤ 22,0		



技術數據 - TECHNICAL DATA

工作電壓
OPERATING VOLTAGE
300 V

工作溫度
TEMPERATURES
靜態 / static -50 °C / + 80 °C
動態 / dynamic -40 °C / + 80 °C

介電強度
DIELECTRIC STRENGTH
1.5 kv acc.to EN 50395 Part 6,7

絕緣電阻
INSULATION RESISTANCE
≥ 1GΩ acc.to EN 50395 Part 8

電阻
ELECTRICAL RESISTANCE
見表 - See table

特性阻抗
IMPEDANCE
100 Ω

標稱電容
NOMINAL CAPACITANCE
見表 - See table

產品特點 - PRODUCT'S FEATURES

耐油 / OIL RESISTANT
EN 50363-10-12, UL 1581

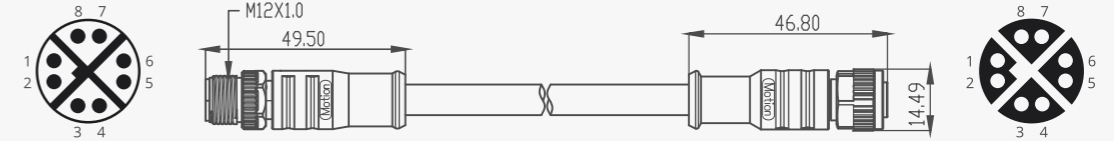
阻燃 / FLAME RESISTANT
IEC 60332-1-2, UL VW1, FT 1

無鹵 / HALOGEN FREE
EN 60754-1



M12-X型 延長線

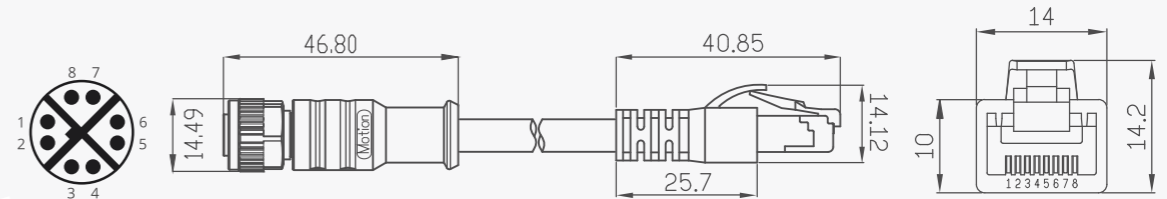
M12-X TYPE EXTEND CABLE



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M12N-MF8X-C7-PE100	8 x 0,34	8	10	PUR with Shield
M12N-MF8X-C7-P050	8 x 0,34	8	5	PUR with Shield
M12N-MF8X-C7-P030	8 x 0,34	8	3	PUR with Shield
M12N-MF8X-C7-P015	8 x 0,34	8	1,5	PUR with Shield

M12-X型 連接線-RJ45

M12-X TYPE EXTEND - RJ45



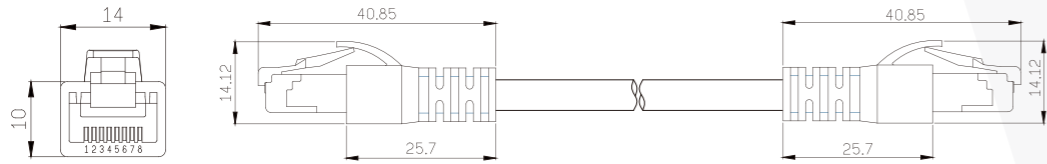
訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
M12N-MJ8X-C7-PE100	8 x 0,34	8	10	PUR with Shield
M12N-MJ8X-C7-PE050	8 x 0,34	8	5	PUR with Shield
M12N-MJ8X-C7-PE030	8 x 0,34	8	3	PUR with Shield
M12N-MJ8X-C7-PE015	8 x 0,34	8	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

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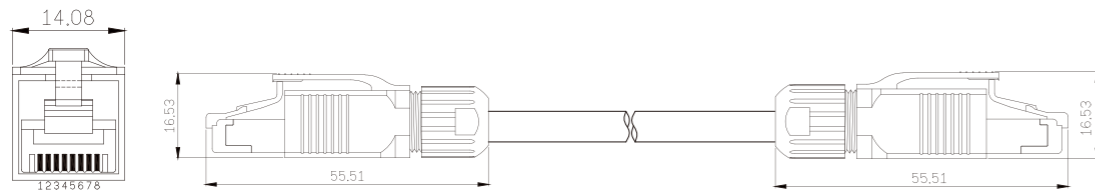


M12 RJ45 - RJ45 Moulding



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJ-C6-RE030	8 x 0,34	8	3,0	PUR with Shield
N-JJ-C6-RE015	8 x 0,34	8	1,5	PUR with Shield
N-JJ-C6-RE006	8 x 0,34	8	0,6	PUR with Shield
N-JJ-C6-RE003	8 x 0,34	8	0,3	PUR with Shield

M12 RJ45 - RJ45 Nylon

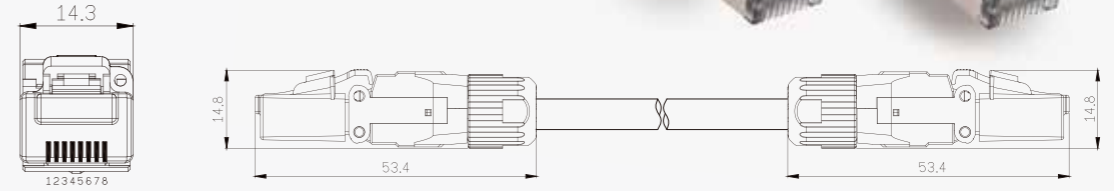


訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJN-C6-RE100	8 x 0,34	8	10	PUR with Shield
N-JJN-C6-RE050	8 x 0,34	8	5	PUR with Shield
N-JJN-C6-RE030	8 x 0,34	8	3	PUR with Shield
N-JJN-C6-RE015	8 x 0,34	8	1,5	PUR with Shield

※ 另需其他長度或客製規格，歡迎與我們洽詢。

If it is a customized specification other than the standard product, we will give you the most suitable advice after discussing with you in detail.

M12 RJ45 - RJ45 Metal



訂購代碼 Order Number	線徑 Conductor normal cross section (mm ²)	針 Pins	長度 Cable length (m)	外背 / 隔離 Jacket / Shield
N-JJM-C6-RE030	8 x 0,34	8	3,0	PUR with Shield
N-JJM-C6-RE015	8 x 0,34	8	1,5	PUR with Shield
N-JJM-C6-RE006	8 x 0,34	8	0,6	PUR with Shield
N-JJM-C6-RE003	8 x 0,34	8	0,3	PUR with Shield

主要測試方法簡介

VISUAL RECAP OF MAIN TEST'S METHODS



電纜構造
CABLE CONSTRUCTION
Video Microscope
電子顯微鏡
UL 758 - UL 1581



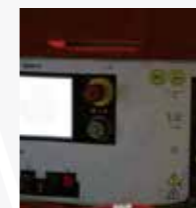
電氣測試
ELECTRICAL TEST
Capacitance, Inductance,
Resistance
電容 · 電感 · 電阻
EN 61196.1/11.3



電氣測試
ELECTRICAL TEST
Dielectric Strength
介電強度
EN 61196.1/11.3



電氣測試
ELECTRICAL TEST
Attenuation, Cross Talk,
Impedance
衰減 · 串擾 · 阻抗
EN 61196.1/11.8
EN 61196.1/11.9



電氣測試
ELECTRICAL TEST
Insulation Resistance
絕緣電阻
EN 61196.1/11.2
HD - 608



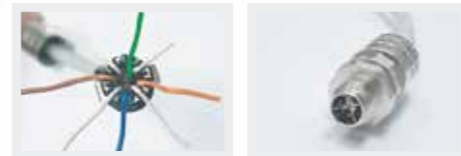
安全測試
SECURITY TEST
Flame Resistance Tests
阻燃測試
UL VW1 · IEC 60332-1-2
EN 50265-2-1 · CSA FT4



M12 X-Coded Male Cable Connector

POE++

IEEE 802.3bt
IEC 60512-99-002:2019



Specification:

IEC 61076-2-109
Transmission characteristics:
10 Gigable Ethernet acc. to IEEE 802.3an
Qualified Screened Class E /Cat.6A
ANSI/TIA/EIA-568-D.2
ISO/IEC 11801; CENELEC EN 50173-1

Power over Ethernet:

PoE++ type 4
IEEE 802.3bt
IEC 60512-99-002:2019

Electrical:

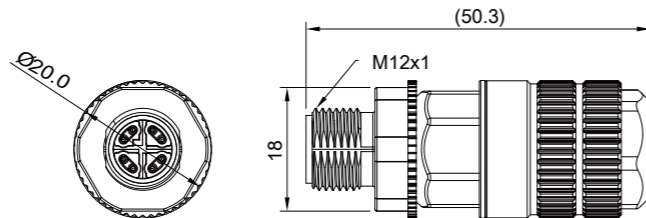
Insulation Resistance: 100 Mohms minimum
Contact Resistance: 10 mohms maximum

Mechanical:

Housing : Die Casting
Nut : Brass nickel plated
Wire pair presorting : PC UL94 V0
IDC Contact: Phosphor Bronze gold over nickel plated
Shield spring: Phosphor Bronze gold over nickel plated
Protection against particulate ingress/water/immersion: IP67
Temperature: -40° to 85°C
Accept Cable: #26~22AWG solid wire. Outer diameter 5.5~9.0 mm

Application:

- Industrial



Cat.6_A STP Field Terminable Plug, 180Deg. MP36P6AS-B1K

POE++

IEEE 802.3bt
IEC 60512-99-002:2019



Specification:

Qualified Screened Class 6_A Connecting Hardware
Complied of TIA-568.2-D
IEC60603-7-51
ISO/IEC11801 2.2 Edition
CENELEC EN 50173-1

Power over Ethernet:

PoE++ Type 4
IEEE 802.3bt
IEC 60512-99-002:2019

Electrical:

Insulation Resistance: 500 Mohms minimum
Contact Resistance: 20 mohms maximum

Mechanical:

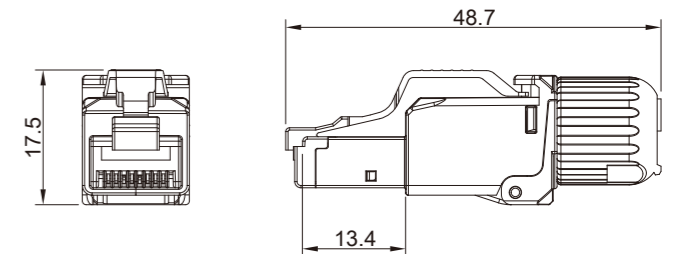
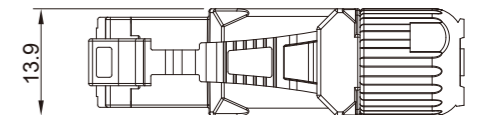
Plug Insertion Life: 750 Cycles Minimum.
Plug Retention Force: 20 lbs Minimum.
Temperature: -40°C to 68°C

Physicals:

IDC-Contact: T=0.4mm phosphor bronze, Sn over nickel plating.
Accept Cable: #26~22AWG solid wire. Outer diameter 6.0~8.5

Application:

- MPTL
- Industrial
- Enterprise





Profinet STP Field Terminable Plug, 180 Deg. MP36P58S-P1K



IEEE 802.3bt
IEC 60512-99-002:2019



Specification:

Cat.5e RJ45 plug, 2 pairs
Qualified Screened Class D
ISO/IEC 11801 2.2 Edition
IEC 60603-7-3 2nd Edition
CENELEC EN 50173-1

Power over Ethernet:

PoE++ type 4
IEEE 802.3bt
IEC 60512-99-002:2019

Electrical:

Insulation Resistance: 500 Mohms minimum
Contact Resistance: 20 mohms maximum

Mechanical:

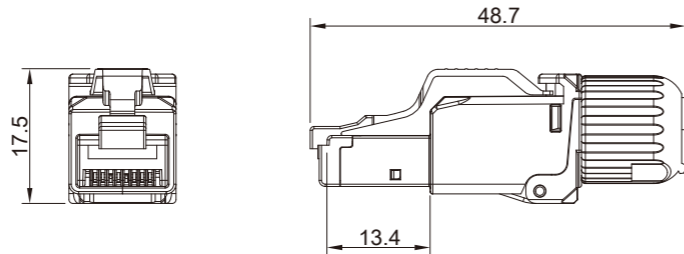
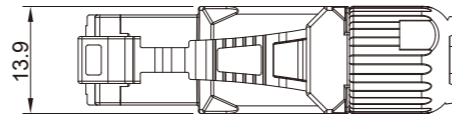
Plug Insertion Life: 750 Cycles Minimum
Plug Retention Force: 20 lbs Minimum
Operating Temperature: -40°C to 68°C

Physicals:

IDC-Contact: T=0.4mm phosphor bronze, Sn over nickel plating.
Accept Cable: #26~22AWG solid wire. Outer diameter 6.0~8.5

Application:

- Industrial



Cat.6_A STP Field Terminable Plug, 180Deg. MP36P6AS-B2D



IEEE 802.3bt
IEC 60512-99-002:2019



Specification:

Qualified Screened Class _A Connecting Hardware
Complied of TIA-568.2-D
IEC60603-7-51
ISO/IEC11801 2.2 Edition
CENELEC EN 50173-1

Power over Ethernet:

PoE++ Type 4
IEEE 802.3bt
IEC 60512-99-002:2019

Electrical:

Insulation Resistance: 500 Mohms minimum
Contact Resistance: 20 mohms maximum

Mechanical:

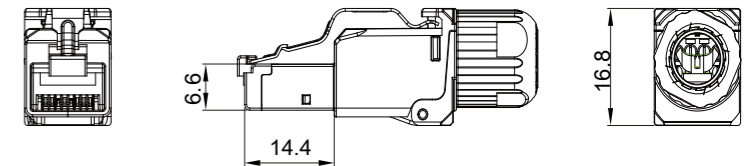
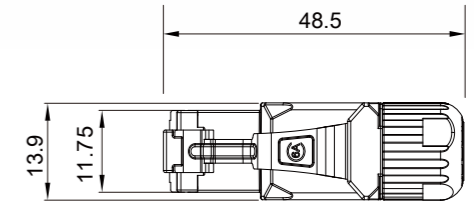
Plug Insertion Life: 750 Cycles Minimum.
Plug Retention Force: 20 lbs Minimum.
Temperature: -40°C to 68°C

Physicals:

IDC-Contact: T=0.4mm phosphor bronze, Sn over nickel plating.
Accept Cable: #26~22AWG solid wire. Outer diameter 6.0~8.5

Application:

- MPTL
- Industrial
- Enterprise





Hand Tool for Field Terminable Plugs(MP36series) HT36X-YL



Crimp



Dismounting



Unlock



Specification:

Cap:PC
Base:PC

