

# Product Range Overview

Sub-Series Name	M5	Guided M8	M8	M10.5	M12 A	M12 B	M12 D
Mating Style	Screw Thread	Screw Thread Snap-in	Screw Thread & Snap-in	Screw Thread	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull
Plastic Version	-	✓	✓	-	✓	✓	✓
Metal Version	✓	✓	✓	✓	✓	✓	✓
No. of Contacts	3 ~ 4	2 ~ 6	3 ~ 8	2 ~ 5	3 ~ 17	5	4
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Transmission Rate	-	-	-	-	Cat. 5e (8 Pin To RJ45)	-	Cat. 5e (4 Pin To RJ45)
Operating Voltage (AC/DC)	60V	30V ~ 60V	30V ~ 60V	30V	30V ~ 250V	60V	250V
Current Rating	1A	1.5A ~ 3A 3A+1.5A	1.5A ~ 3A	2A	1.5A ~ 4A	4A	4A
Operating Temperature	<ul style="list-style-type: none"> <li>• Receptacle: -40°C ~ 105°C</li> <li>• Receptacle With Wires: -20°C ~ 85°C</li> <li>• Overmolded With Cable:               <ol style="list-style-type: none"> <li>(1) PVC: -20°C ~ 85°C</li> <li>(2) PUR: -20°C ~ 85°C</li> </ol> </li> <li>• Field Installable: -40°C ~ 105°C</li> </ul>						
Fasten Style of Nut	Front & Rear	Front & Rear	Front & Rear	Rear	Front & Rear	Front & Rear	Front & Rear
Receptacle	✓	✓	✓	✓	✓	✓	✓
Receptacle With Cable/Wire	✓	-	✓	-	✓	✓	✓
Overmolded With Cable	✓	✓	✓	✓	✓	✓	✓
Field Installable	-	✓	✓	✓	✓	✓	✓
Accessories	-	✓	✓	✓	✓	✓	✓
Applicable Wire Gauge	26AWG (0.14mm <sup>2</sup> )	24 ~ 22AWG (0.25 ~ 0.34mm <sup>2</sup> )	22AWG (0.34mm <sup>2</sup> )	24AWG (0.25mm <sup>2</sup> )	26 ~ 22AWG (0.14 ~ 0.34mm <sup>2</sup> )	26 ~ 22AWG (0.14 ~ 0.34mm <sup>2</sup> )	26 ~ 22AWG (0.14 ~ 0.34mm <sup>2</sup> )
Mating Cycles (Pin Contact)	1,000 Cycles (IEC 100 Cycles)						
IP Rating	<ul style="list-style-type: none"> <li>• Receptacle / Receptacle With Wires:               <ol style="list-style-type: none"> <li>(1) IP67 (Mated / Unmated)</li> <li>(2) IP68 (Unmated, 1M / 24h)</li> <li>(3) IP69K (Mated)</li> </ol> </li> <li>• Overmolded With Cable / Field Installable: IP67 / IP68 (Mated, 1M / 24h)</li> </ul>						
Salt Spray (Connector, Mated)	48h	48h	48h	48h	48h	48h	48h
UV Resistance	✓	✓	✓	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL 94V-0	UL 94HB	UL 94V-0	UL 94V-0	UL 94V-0
Vibration	Frequency Range 10 ~ 500Hz / Amplitude 0.35mm						
EMI Option	-	✓	✓	-	✓	✓	✓
RoHS 2.0 Compliance	✓	✓	✓	✓	✓	✓	✓
REACH Compliance	✓	✓	✓	✓	✓	✓	✓
Certificates	-	-	UL1977 UL2238	-	UL1977, UL2238, UL1863	UL1977 UL2238	UL1977, UL2238, UL1863
Standard / Compliance	IEC 61076-2-105	-	IEC 61076-2-104	-	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101

# Product Range Overview

M12 I	M12 K	M12 L	M12 S	M12 T	M12 X	M23
Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread
✓	✓	✓	✓	✓	-	-
✓	✓	✓	✓	✓	✓	✓
5	3 ~ 5	2 ~ 5	3 ~ 4	2 ~ 4	8	6
Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
-	-	-	-	-	Cat.6A	-
60V	630V	63V	630V	63V	30 ~ 60V	600V
4A	12A / 16A	16A	12A	12A	0.5A	28A

- Receptacle: -40°C ~ 105°C
- Receptacle With Wires: -20°C ~ 85°C
- Overmolded With Cable:
  - (1) PVC: -20°C ~ 85°C
  - (2) PUR: -20°C ~ 85°C
- Field Installable: -40°C ~ 105°C

Front & Rear	Front	Front	Front & Rear	Front & Rear	Front & Rear	Front
✓	✓	✓	✓	✓	✓	✓
-	-	-	✓	✓	-	-
✓	✓	✓	✓	✓	✓	-
-	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	-
22AWG (0.34mm <sup>2</sup> )	14AWG (2.5mm <sup>2</sup> )	14AWG (2.5mm <sup>2</sup> )	16AWG (1.5mm <sup>2</sup> )	16AWG (1.5mm <sup>2</sup> )	26AWG (0.14mm <sup>2</sup> )	14 ~ 12AWG (2.50 ~ 4.00mm <sup>2</sup> )

1,000 Cycles (IEC 100 Cycles)

<ul style="list-style-type: none"> <li>• Receptacle / Receptacle With Wires:               <ol style="list-style-type: none"> <li>(1) IP67 (Mated / Unmated)</li> <li>(2) IP68 (Unmated, 1M / 24h)</li> <li>(3) IP69K (Mated)</li> </ol> </li> <li>• Overmolded With Cable / Field Installable: IP67 / IP68 (Mated, 1M / 24h)</li> </ul>						
48h	48h	48h	48h	48h	48h	48h
✓	✓	✓	✓	✓	✓	✓
UL 94HB	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0
Frequency Range 10 ~ 500Hz / Amplitude 0.35mm						
-	-	-	-	-	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
-	UL1977 UL2237	UL1977 UL2238	UL1977 UL2237	UL1977 UL2238	UL1863	-
-	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-109	-