

M12 SERIES

M12 male straight overmolded cable assembly shielded / unshielded customizable cable length L

CIRCULAR CONNECTOR / PRODUCT FAMILY GUIDE



PRODUCT FAMILY CODE

M12XXX-09-010-X-L

58 ORDERABLE PART NUMBERS / 2 / 3 / 4 / 5 / 6 / 8 / 12 / 17 CONTACTS / A-CODE / B-CODE / D-CODE / IP65 / IP67

Product Overview



M12 SERIES / PRODUCT FAMILY

M12 male straight overmolded cable assembly shielded / unshielded customizable cable length L

M12XXX-09-010-X-L

WLconnectivity's m12 male straight overmolded cable assembly shielded / unshielded customizable cable length l family consolidates 58 exact orderable configurations covering 2, 3, 4, 5, 6, 8, 12, 17-contact options. The configurations share the product platform and engineering references shown in this manual; exact selection details are listed in the ordering table.

Technical Specifications

Standard	IEC 61076-2-101
Termination	solder termination and overmolding
Locking system	threaded locking
Degree of protection	IP65 / IP67
Mechanical durability	500 cycles
Operating temperature	-25 °C to +85 °C
Resistance	Contact Resistance: $\leq 10 \text{ m}\Omega$ / Insulation Resistance: $\geq 1000 \text{ M}\Omega$
Materials	Housing: PA+GF / TPU Terminal: gold-plated brass / gold-plated phosphor bronze shell: nickel-plated copper alloy / PA+GF Forming: TPU / PVC

Configuration-specific Ratings

Electrical values that vary by contact count and coding

CONTACTS	CODING	RATED CURRENT	RATED VOLTAGE	WIRE SIZE	WIRE GAUGE
2 / 3 / 4	A-code	4 A	250 V	0.34 mm ²	22 AWG
5	A-code	4 A	60 V	0.34 mm ²	22 AWG
6 / 8	A-code	2 A	30 V	0.25 mm ²	24 AWG
12 / 17	A-code	1.5 A	30 V	0.14 mm ²	24 AWG
2 / 3 / 4	B-code	4 A	250 V	0.34 mm ²	22 AWG
5	B-code	4 A	60 V	0.34 mm ²	22 AWG
2 / 3 / 4	D-code	4 A	250 V	0.34 mm ²	22 AWG

Cable length: L denotes the custom length in millimetres.

Ordering Information

All exact orderable part numbers for this product family

FAMILY CODE M12XXX-09-010-X-L

58 orderable part numbers

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
1	2	A-code	PVC, unshielded	M12A02-09-010-1-L
2	2	A-code	PUR, unshielded	M12A02-09-010-2-L
3	2	A-code	PVC, shielded	M12A02-09-010-3-L
4	2	A-code	PUR, shielded	M12A02-09-010-4-L
5	3	A-code	PVC, unshielded	M12A03-09-010-1-L
6	3	A-code	PUR, unshielded	M12A03-09-010-2-L
7	3	A-code	PVC, shielded	M12A03-09-010-3-L
8	3	A-code	PUR, shielded	M12A03-09-010-4-L
9	4	A-code	PVC, unshielded	M12A04-09-010-1-L
10	4	A-code	PUR, unshielded	M12A04-09-010-2-L
11	4	A-code	PVC, shielded	M12A04-09-010-3-L
12	4	A-code	PUR, shielded	M12A04-09-010-4-L
13	5	A-code	PVC, unshielded	M12A05-09-010-1-L
14	5	A-code	PUR, unshielded	M12A05-09-010-2-L
15	5	A-code	PVC, shielded	M12A05-09-010-3-L
16	5	A-code	PUR, shielded	M12A05-09-010-4-L
17	6	A-code	PVC, unshielded	M12A06-09-010-1-L
18	6	A-code	PUR, unshielded	M12A06-09-010-2-L
19	6	A-code	PVC, shielded	M12A06-09-010-3-L

Cable length: L denotes the custom length in millimetres.

Ordering Information

CONTINUED

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
20	6	A-code	PUR, shielded	M12A06-09-010-4-L
21	8	A-code	PVC, unshielded	M12A08-09-010-1-L
22	8	A-code	PUR, unshielded	M12A08-09-010-2-L
23	8	A-code	PVC, shielded	M12A08-09-010-3-L
24	8	A-code	PUR, shielded	M12A08-09-010-4-L
25	12	A-code	PVC, unshielded	M12A12-09-010-1-L
26	12	A-code	PUR, unshielded	M12A12-09-010-2-L
27	12	A-code	PVC, shielded	M12A12-09-010-3-L
28	12	A-code	PUR, shielded	M12A12-09-010-4-L
29	17	A-code	PVC, unshielded	M12A17-09-010-1-L
30	17	A-code	PUR, unshielded	M12A17-09-010-2-L
31	17	A-code	PVC, shielded	M12A17-09-010-3-L
32	17	A-code	PUR, shielded	M12A17-09-010-4-L
33	2	B-code	PVC, unshielded	M12B02-09-010-1-L
34	2	B-code	PUR, unshielded	M12B02-09-010-2-L
35	2	B-code	PVC, shielded	M12B02-09-010-3-L
36	2	B-code	PUR, shielded	M12B02-09-010-4-L
37	3	B-code	PVC, unshielded	M12B03-09-010-1-L
38	3	B-code	PUR, unshielded	M12B03-09-010-2-L
39	3	B-code	PVC, shielded	M12B03-09-010-3-L
40	3	B-code	PUR, shielded	M12B03-09-010-4-L

Cable length: L denotes the custom length in millimetres.

Ordering Information

CONTINUED

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
41	4	B-code	PVC, unshielded	M12B04-09-010-1-L
42	4	B-code	PUR, unshielded	M12B04-09-010-2-L
43	4	B-code	PVC, shielded	M12B04-09-010-3-L
44	4	B-code	PUR, shielded	M12B04-09-010-4-L
45	5	B-code	PVC, unshielded	M12B05-09-010-1-L
46	5	B-code	PUR, unshielded	M12B05-09-010-2-L
47	5	B-code	PVC, shielded	M12B05-09-010-3-L
48	5	B-code	PUR, shielded	M12B05-09-010-4-L
49	2	D-code	PVC, unshielded	M12D02-09-010-1-L
50	2	D-code	PUR, unshielded	M12D02-09-010-2-L
51	2	D-code	PVC, shielded	M12D02-09-010-3-L
52	2	D-code	PUR, shielded	M12D02-09-010-4-L
53	3	D-code	PVC, unshielded	M12D03-09-010-1-L
54	3	D-code	PUR, unshielded	M12D03-09-010-2-L
55	3	D-code	PVC, shielded	M12D03-09-010-3-L
56	4	D-code	PVC, unshielded	M12D04-09-010-1-L
57	4	D-code	PUR, unshielded	M12D04-09-010-2-L
58	4	D-code	PVC, shielded	M12D04-09-010-3-L

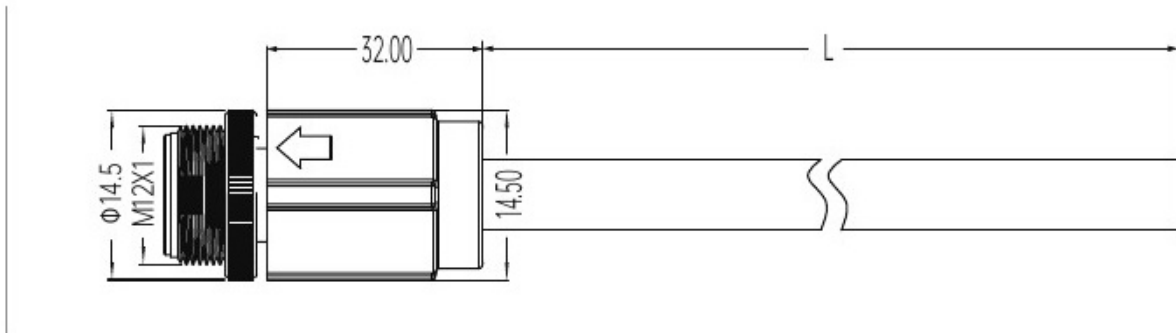
Cable length: L denotes the custom length in millimetres.

Engineering Reference

Shared dimensional and pin-assignment reference for this product family

DIMENSIONAL REFERENCE

DIMENSIONS IN MILLIMETRES



PIN ASSIGNMENT / FRONT VIEW

Contacts: 2 / 3 / 4 / 5 / 6 / 8 / 12 / 17 / Coding: A-code / B-code / D-code

	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	8 Pin	12 Pin	17 Pin
A-code								
B-code								
D-code								