

M16 SERIES

M16 male straight overmolded cable assembly shielded / unshielded customizable cable length L

CIRCULAR CONNECTOR / PRODUCT FAMILY GUIDE



PRODUCT FAMILY CODE

M160XX-09-010-X-L

48 ORDERABLE PART NUMBERS / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 12 / 14 / 16 / 19 / 24 CONTACTS / STANDARD / IP67 / IP68

Product Overview



M16 SERIES / PRODUCT FAMILY

M16 male straight overmolded cable assembly shielded / unshielded customizable cable length L

M160XX-09-010-X-L

WLconnectivity's m16 male straight overmolded cable assembly shielded / unshielded customizable cable length l family consolidates 48 exact orderable configurations covering 2, 3, 4, 5, 6, 7, 8, 12, 14, 16, 19, 24-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

Outer shell material	PA+GF / nickel-plated copper alloy / PA+GF
Housing material	PA+GF / TPU
Overmold material	TPU / PVC
Contact material	gold-plated brass / gold-plated phosphor bronze
Applicable temperature	-20 °C to +80 °C
Insulation resistance	≥ 100 MΩ
Contact resistance	≤ 5 mΩ
Degree of protection	IP67 / IP68
Mechanical durability	≥ 500 cycles

Configuration-specific Ratings

Electrical values that vary by contact count and coding

CONTACTS	CODING	RATED CURRENT	RATED VOLTAGE (AC)	RATED VOLTAGE (DC)	WIRE SIZE	WIRE GAUGE
2 / 3	Standard	7 A	250V	250V	0.75 mm ²	20 AWG
4 / 5	Standard	6 A	250V	250V	0.75 mm ²	20 AWG
6	Standard	5 A	250V	250V	0.75 mm ²	20 AWG
7 / 8	Standard	5 A	125V	125V	0.75 mm ²	20 AWG
12 / 14 / 16 / 19	Standard	3 A	60V	60V	0.25 mm ²	24 AWG
24	Standard	1 A	60V	60V	0.14 mm ²	26 AWG

Cable length: L denotes the custom length in millimetres.

Ordering Information

All exact orderable part numbers for this product family

FAMILY CODE M160XX-09-010-X-L

48 orderable part numbers

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
1	2	Standard	PVC, unshielded	M16002-09-010-1-L
2	2	Standard	PUR, unshielded	M16002-09-010-2-L
3	2	Standard	PVC, shielded	M16002-09-010-3-L
4	2	Standard	PUR, shielded	M16002-09-010-4-L
5	3	Standard	PVC, unshielded	M16003-09-010-1-L
6	3	Standard	PUR, unshielded	M16003-09-010-2-L
7	3	Standard	PVC, shielded	M16003-09-010-3-L
8	3	Standard	PUR, shielded	M16003-09-010-4-L
9	4	Standard	PVC, unshielded	M16004-09-010-1-L
10	4	Standard	PUR, unshielded	M16004-09-010-2-L
11	4	Standard	PVC, shielded	M16004-09-010-3-L
12	4	Standard	PUR, shielded	M16004-09-010-4-L
13	5	Standard	PVC, unshielded	M16005-09-010-1-L
14	5	Standard	PUR, unshielded	M16005-09-010-2-L
15	5	Standard	PVC, shielded	M16005-09-010-3-L
16	5	Standard	PUR, shielded	M16005-09-010-4-L
17	6	Standard	PVC, unshielded	M16006-09-010-1-L
18	6	Standard	PUR, unshielded	M16006-09-010-2-L
19	6	Standard	PVC, shielded	M16006-09-010-3-L

Cable length: L denotes the custom length in millimetres.

Ordering Information

CONTINUED

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
20	6	Standard	PUR, shielded	M16006-09-010-4-L
21	7	Standard	PVC, unshielded	M16007-09-010-1-L
22	7	Standard	PUR, unshielded	M16007-09-010-2-L
23	7	Standard	PVC, shielded	M16007-09-010-3-L
24	7	Standard	PUR, shielded	M16007-09-010-4-L
25	8	Standard	PVC, unshielded	M16008-09-010-1-L
26	8	Standard	PUR, unshielded	M16008-09-010-2-L
27	8	Standard	PVC, shielded	M16008-09-010-3-L
28	8	Standard	PUR, shielded	M16008-09-010-4-L
29	12	Standard	PVC, unshielded	M16012-09-010-1-L
30	12	Standard	PUR, unshielded	M16012-09-010-2-L
31	12	Standard	PVC, shielded	M16012-09-010-3-L
32	12	Standard	PUR, shielded	M16012-09-010-4-L
33	14	Standard	PVC, unshielded	M16014-09-010-1-L
34	14	Standard	PUR, unshielded	M16014-09-010-2-L
35	14	Standard	PVC, shielded	M16014-09-010-3-L
36	14	Standard	PUR, shielded	M16014-09-010-4-L
37	16	Standard	PVC, unshielded	M16016-09-010-1-L
38	16	Standard	PUR, unshielded	M16016-09-010-2-L
39	16	Standard	PVC, shielded	M16016-09-010-3-L
40	16	Standard	PUR, shielded	M16016-09-010-4-L

Cable length: L denotes the custom length in millimetres.

Ordering Information

CONTINUED

NO.	CONTACTS	CODING	CABLE OPTION	PART NUMBER
41	19	Standard	PVC, unshielded	M16019-09-010-1-L
42	19	Standard	PUR, unshielded	M16019-09-010-2-L
43	19	Standard	PVC, shielded	M16019-09-010-3-L
44	19	Standard	PUR, shielded	M16019-09-010-4-L
45	24	Standard	PVC, unshielded	M16024-09-010-1-L
46	24	Standard	PUR, unshielded	M16024-09-010-2-L
47	24	Standard	PVC, shielded	M16024-09-010-3-L

CONFIGURATION RANGE

CONTACTS	2 / 3 / 4 / 5 / 6 / 7 / 8 / 12 / 14 / 16 / 19 / 24
CODING	Standard
CABLE OPTIONS	PVC / PUR; unshielded / shielded
PROTECTION	IP67 / IP68



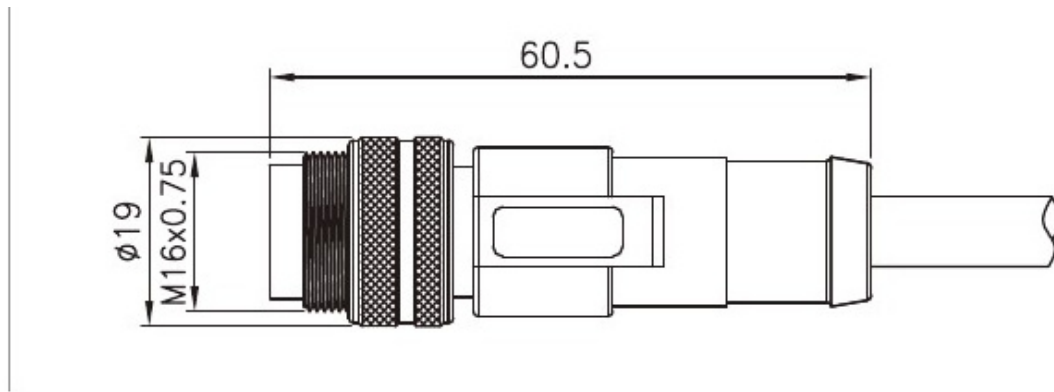
Cable length: L denotes the custom length in millimetres.

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 / 7 / 8 / 12 / 14 / 16 / 19 / 24 / Coding: Standard

