



TANNER, INC. — WIRE & CABLE SPECIALISTS
1260 Moore Road, Suite I · Avon, OH 44011
(440) 808-8841 · sales@tannerwire.com · tannerwire.com

M12 SERIES

2–17 Pin Circular Connector

WATERPROOF CONNECTOR SPECIFICATION SHEET



Female M12 Connector 4-Pin (2x2)
8-Pin (2x4) / 12-Pin (3x4)
17-Pin (4x4) / 24-Pin (6x4)
One end or both ends POLYURETHANE CABLE

DWG NO.	SERIES	STANDARD	REV	DATE
TAN-M12-001	M12	IEC 61076-2-101	A	2026-09-05

GENERAL SPECIFICATIONS

Shell Material	PA-GF / brass, nickel-plated
Molding Material	PA + GF / TPU
Insulator Material	PA + GF / TPU
Contact Material	Phosphorus copper, gold-plated
Sealing Material	Epoxy resin / rubber
Waterproof Grade	IP65 / IP67
Operating Temp.	-25°C to +85°C
Contact Resistance	≤5 mΩ
Durability	≥500 mating cycles

PIN CONFIGURATIONS

4-Pin

5-Pin

8-Pin

Pin counts available: 2, 3, 4, 5, 6, 8, 12, 17 (+ X/Y data, S/T/K/L/M power coding)
Coupling: M12 x 1 threaded coupling nut, 360° shielding

ELECTRICAL PARAMETERS

Pins	Rated Voltage	Rated Current	Conductor Size
2 / 3 / 4	250V	4A	22 AWG / 0.34 mm ²
5	60V	4A	22 AWG / 0.34 mm ²
6 / 8	30V	2A	24 AWG / 0.25 mm ²
12 / 17	30V	1.5A	26 AWG / 0.14 mm ²

ORDERING CODE REFERENCE

TW-M12-04MA-OMS

Tanner, Inc. internal reference number. Contact sales@tannerwire.com for cross-manufacturer equivalents.

TYPICAL APPLICATIONS

Industry 4.0 sensor/actuator wiring, PROFINET / EtherCAT / EtherNet-IP field connections, servo feedback, machine I/O.