



TANNER, INC. — WIRE & CABLE SPECIALISTS
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M23 SERIES

6–17 Pin Signal / Power Circular Connector

WATERPROOF CONNECTOR SPECIFICATION SHEET



DWG NO. TAN-M23-001	SERIES M23	STANDARD M23 signal / power circular	REV A	DATE 2026-09-05
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GENERAL SPECIFICATIONS

Shell Material	Nickel-plated zinc alloy
Insulator Material	PA66
Contact Material	Gold-plated brass
Sealing Material	Epoxy resin / rubber
Waterproof Grade	IP67
Operating Temp.	-40°C to +105°C
Contact Resistance	≤5 mΩ
Durability	≥500 mating cycles
Coupling Thread	M23 x 1 (23 mm)
Termination	Crimp, shielded

PIN CONFIGURATIONS

6-Pin	12-Pin	17-Pin
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Pin counts available: Signal: 6, 7, 9, 12, 17 · Power: 6, 8 (hybrid)

Coupling: M23 threaded coupling; straight plug (internal/external thread) or right-angle panel mount

ELECTRICAL PARAMETERS

Configuration	Rated Voltage	Rated Current	Conductor Size
Power 6-pin	630V	30A	AWG 14 / 2.5 mm ²
Power 8-pin	250–630V	9–20A	AWG 18–14 / 1–2.5 mm ²
Signal 6 / 7-pin	300V	20A	AWG 14 / 2.5 mm ²
Signal 9-pin	150V	8A	AWG 16 / 1.5 mm ²
Signal 12 / 17-pin	150V	8A	AWG 18 / 1 mm ²

ORDERING CODE REFERENCE

TW-M23-12M-SIG

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

TYPICAL APPLICATIONS

Servo motor power and feedback, drive systems, industrial motors, robotics, and heavy machine I/O.