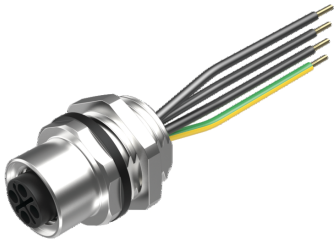
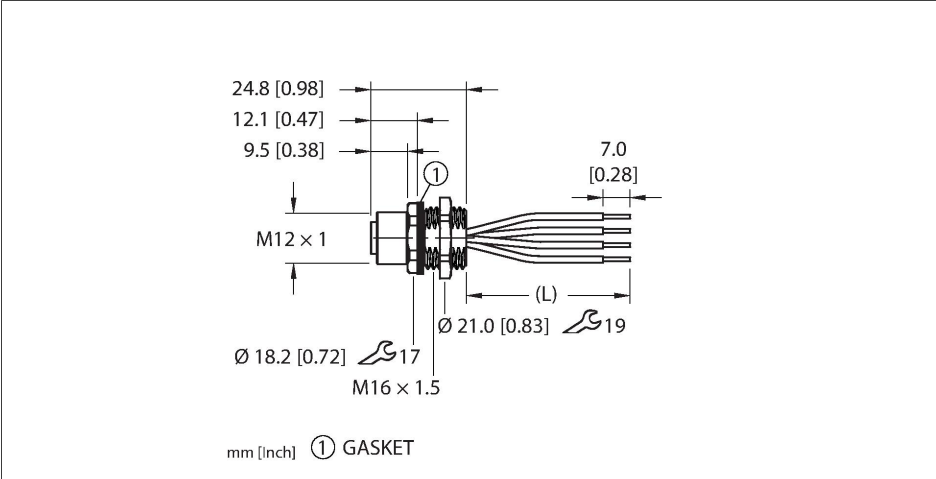


FK46PS-0.5/M16

M12 Power Flange – Front-mounted



Technical data

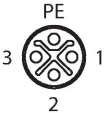
Type	FK46PS-0.5/M16
ID	U2-28509
Connector A	Female, M12 × 1, S-coded
Design specification	acc. to IEC 61076-2-111
Number of pins	3+PE
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA, Black
Seal	O ring, Plastic, FKM/FPM
Flange housing	Brass, CuZn, Nickel-plated
Tightening torque (range)	0.4 ... 1 Nm (observe max. torque of mating connector!)
Mounting type	front panel mounting
Screw-in thread seal	Gasket, Rubber, NBR
Screw-in thread	M16 × 1.5
Lock nut/screw	BrassCuZnNickel-plated
Flange tightening torque	2.5...7.3 Nm
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP68
	NEMA: 1, 3, 4, 6P
Conductor data	
Number of cores	4
Cable length	0.5 m, (+ 50 mm or 4 % of the length/-0.0, depending on which value is larger)
Conductor material	TC (tinned copper)
Core insulation	PVC
Core cross-section	4 x 16 AWG [Similar to 1.50 mm²]

Features

- M12 female connector, S-coded, 3-pin + PE
- Screw-in thread: M16 × 1.5

Contact assignment

Connector A



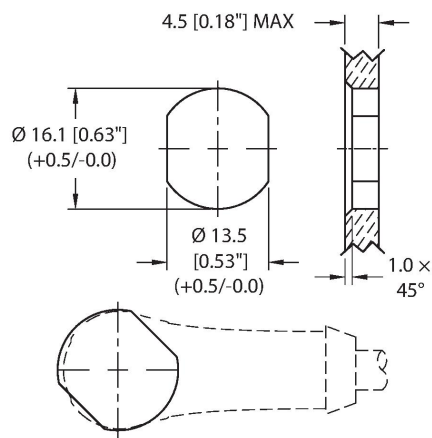
Circuit Diagram



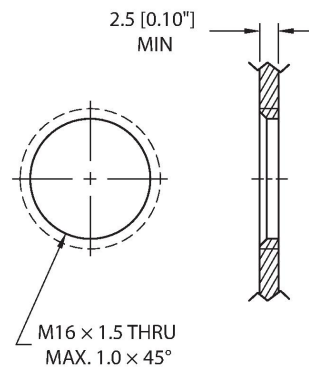
Technical data

Core colors	BK1, BK2, BK3, GNYE
Electrical properties at +20 °C	
Rated voltage	600 V
Current	12 A
Mechanical and chemical properties	
Ambient temperature (fixed)	-40...+85 °C
Approvals	cULus recognized
Note	
CAUTION: RISK OF ELECTRIC SHOCK! DO NOT DISCONNECT UNDER LOAD!	
- The standard right-angled connection cable runs perpendicular to the flat surfaces of the mounting hole.	
- We reserve the right to make technical modifications without prior notice.	

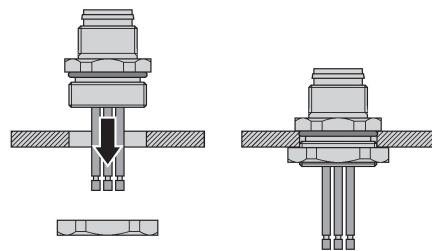
Through bore



Threaded bore



Front panel mounting



Derating curve

