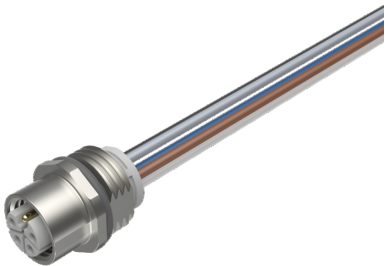
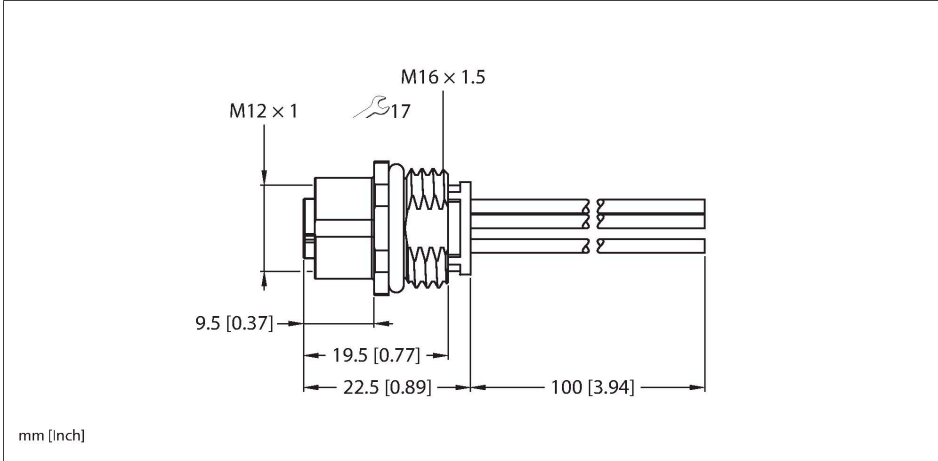


# FK54PL-1/M16

## M12 Power Receptacle – Front-mounted



### Technical data

|                           |                                                                              |
|---------------------------|------------------------------------------------------------------------------|
| Type                      | FK54PL-1/M16                                                                 |
| ID                        | 100003950                                                                    |
| Connector A               | Female, M12 × 1, L-coded                                                     |
| Design specification      | acc. to IEC 61076-2-111                                                      |
| Number of pins            | 4+FE                                                                         |
| 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<br>(observe max. torque of mating connector!)                   |
| Mounting type             | front panel mounting                                                         |
| Screw-in thread seal      | O-ring, NBR                                                                  |
| Screw-in thread           | M16 × 1.5                                                                    |
| Flange tightening torque  | 2.5...7.3 Nm                                                                 |
| Mechanical lifespan       | > 100 Mating cycles                                                          |
| Pollution degree          | 3                                                                            |
| Protection class          | IP68                                                                         |
|                           | NEMA: 1, 3, 4, 6P                                                            |
| Conductor data            |                                                                              |
| Number of cores           | 5                                                                            |
| Cable length              | 1 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        | 5 x 14 AWG [Similar to 2.50 mm²]                                             |
| Core colors               | BN, WH, BU, BK, GY                                                           |

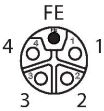
### Features



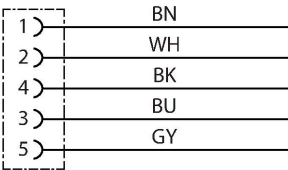
■ M12-Kupplung, L-codiert, 4-polig + FE

### Contact assignment

Connector A



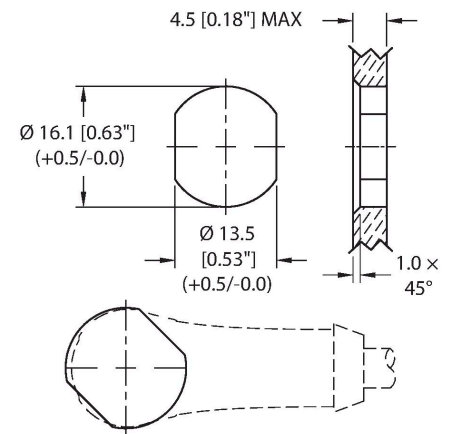
### Circuit Diagram



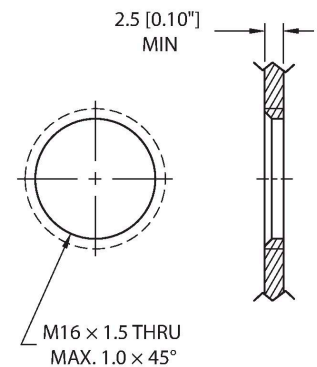
## Technical data

| Electrical properties at +20 °C                                                                            |                  |
|------------------------------------------------------------------------------------------------------------|------------------|
| Rated voltage                                                                                              | 63 V             |
| Current                                                                                                    | 16 A             |
| Mechanical and chemical properties                                                                         |                  |
| Ambient temperature (fixed)                                                                                | -40...+85 °C     |
| Approvals                                                                                                  | cULus recognized |
| Note                                                                                                       |                  |
| CAUTION: RISK OF ELECTRIC SHOCK!<br>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.                               |                  |

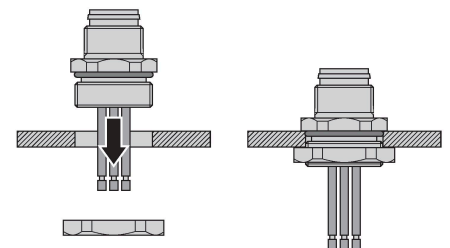
### Through bore



### Threaded bore



### Front panel mounting



## Derating curve

