

# Metal Backshells for D-Sub Connectors

**molex**

Metal Backshells for D-Sub Connectors are available with either straight or angled cable outlets and provide connector protection, strain relief and organized cable routing



Metal Backshells for D-Sub Connectors

## Features and Advantages

**Rubber bushing**  
Provides cable dressing for a variety of cable sizes (optional use)

**Wide cable outlet**  
Accommodates a wide range of cable diameters

**Cable clamp**  
Protects cable from repeated use and harsh environments

**Large inner chamber**  
Allows for D-Sub connectors with special contacts

**Catch-spring system and pre-mounted locking screws included**  
Enabling easy assembly

**UL-recognized**  
File No. E168813

**RoHS compliant by exemption**  
Meets European Union regulations for banned materials hazardous to the environment

Top view

View without lid



Examples of metal backshell applications

## Markets and Applications

### Manufacturing Equipment

- Control panels
- Silicon chip manufacturing
- CNC machines

### Industrial Automation

- Dense connector spacings
- Long cable runs
- Battery modules

### Scientific

- Test and measurement equipment
- Automated inspection equipment

### Medical

- Patient monitoring
- Diagnostic equipment

### Commercial Vehicle

- Telematics
- GPS-agriculture



Control panel on test equipment



Patient monitoring

# Metal Backshells for D-Sub Connectors



## Specifications

### PHYSICAL

Material: Zinc die-cast  
Plating: nickel-plated

### REFERENCE INFORMATION

UL File No.: E168813  
Designed In: Millimeters

### MECHANICAL

Torque (max.): 40Ncm  
Screwhead: Pozidriv

Operating Temperature: -35 to +100°C

## Ordering Information

| Part No.   | Engineering No. | Shell Size | Orientation      | Cable Diameter |
|------------|-----------------|------------|------------------|----------------|
| 1731110095 | FMD1            | 1          | 65° Angle (Dual) | 4.8 to 10.0mm  |
| 1731110096 | FMD2            | 2          | 65° Angle (Dual) | 4.8 to 11.0mm  |
| 1731110086 | FMH1            | 1          | Straight         | 5.0 to 8.0mm   |
| 1731110087 | FMH2            | 2          | Straight         | 5.0 to 8.5mm   |
| 1731110088 | FMH3            | 3          | Straight         | 9.0 to 11.0mm  |
| 1731110089 | FMH4            | 4          | Straight         | 8.5 to 11.0mm  |
| 1731110090 | FMH5            | 5          | Straight         | 10.0 to 12.5mm |
| 1727040095 | FMK1            | 1          | 45° Angle        | 3.0 to 9.5mm   |
| 1727040096 | FMK1G           | 1          | Straight         | 3.0 to 9.5mm   |
| 1731110190 | FMK1-K201       | 1          | 45° Angle        | 10.0 to 11.5mm |
| 1727040097 | FMK2            | 2          | 45° Angle        | 3.0 to 8.5mm   |
| 1727040098 | FMK2G           | 2          | Straight         | 3.0 to 8.5mm   |
| 1731110060 | FMK2G-K201      | 2          | Straight         | 8.0 to 12.5mm  |
| 1731110061 | FMK2-K201       | 2          | 45° Angle        | 8.5 to 12.5mm  |
| 1727040099 | FMK3            | 3          | 45° Angle        | 3.0 to 8.5mm   |
| 1727040100 | FMK3G           | 3          | Straight         | 3.0 to 8.5mm   |
| 1731110058 | FMK3G-K201      | 3          | Straight         | 8.0 to 12.5mm  |
| 1731110062 | FMK3-K201       | 3          | 45° Angle        | 8.5 to 12.5mm  |
| 1727040101 | FMK4            | 4          | 45° Angle        | 3.0 to 12.0mm  |
| 1727040102 | FMK4G           | 4          | Straight         | 3.0 to 12.0mm  |
| 1731110065 | FMK4G-K201      | 4          | Straight         | 12.0 to 15.0mm |
| 1731110063 | FMK4-K201       | 4          | 45° Angle        | 12.0 to 15.0mm |
| 1727040103 | FMK5            | 5          | 45° Angle        | 3.0 to 12.0mm  |
| 1727040104 | FMK5G           | 5          | Straight         | 3.0 to 12.0mm  |
| 1731110059 | FMK5G-K201      | 5          | Straight         | 12.0 to 15.0mm |
| 1731110064 | FMK5-K201       | 5          | 45° Angle        | 12.0 to 15.0mm |

[www.molex.com/link/dsubconnectors.html](http://www.molex.com/link/dsubconnectors.html)

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