DES EMC

Splittable frames for cable shielding

FEATURES

- Multiple configurations with small and large grommets
- Large conductive area in contact with the cable (21 mm)
- Excellent cable grip thanks to the multi-range grommets
- Frame screws in AISI304 Stainless Steel
- Sturdy construction IK10
- High levels of EMI shielding
- Anti-static protection
- Threaded inserts version on request

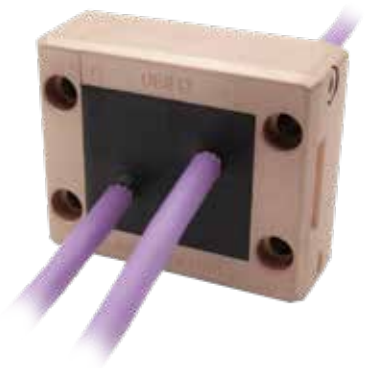
The DES EMC splittable frames **are used when it is necessary to ground shielded cables in fast and efficient way**.
The frames are treated with a **special conductive copper** paint coated in silver while the grommets are produced with TPE with added conductive material.
Thanks to the mechanical connection to the panel made by the fixing screws, the **cable braid is efficiently grounded without generating further disturbances often created by the external metal brackets** that become antennas.

Material: PP+GF with Silver coated copper conductive coating, halogen-free, silicone-free
Flammability: self-extinguishing acc. UL94-V0
Temperature: -40°C... +100°C (static)

RELATED PRODUCTS

- SPG EMC grommets (pag 173)
- SPP EMC grommets (pag 173)
- DES Cover (page 36)
- HY360 hydraulic punch driver (page 179)
- PF cable entry system plates (page 181)

up to IP66 | NEMA 12 | UL94-V0 | UV ISO 4892-2A | RoHS COMPLIANT | IK10



Model	Code	Dimensions (mm)		Max. cut-out (mm)	Pcs (/pack)
DES 24 EMC	1734014024		146 x 61	112 x 36	10
DES 16 EMC	1734014016		120 x 61	86 x 36	
DES 10 EMC	1734014010		99 x 61	65 x 36	
DES Q EMC	1734014008		74 x 61	40 x 36	
DES L2 EMC	1734014002		74 x 41	40 x 18	
DES L3 EMC	1734014003		99 x 41	63 x 18	
DES L4 EMC	1734014004		120 x 41	86 x 18	
DES L5 EMC	1734014005		146 x 41	112 x 18	

DetasUltra cable entry systems incorporate an advanced EMC feature designed to improve electromagnetic compatibility in industrial wiring. Through the use of **conductive rubber** and direct contact with the cable shield and ground plane, these systems effectively contribute to the **reduction of high-frequency noise**. By utilizing conductive rubber and ensuring direct contact between the cable shield and the grounding plane, these systems effectively suppress high-frequency noise, contributing to improved overall EMC performance.

INDEPENDENT THIRD-PARTY TESTING- The EMC performance of the DetasUltra grommets was verified at the E**lectromagnetic Compatibility Laboratory (EMCLab)** of a Third Party Entity. The tests measured: **RF noise attenuation** (10 kHz - 1 GHz) and **impedance to ground**.

KEY FINDINGS - **Impedance** improves significantly above a few MHz, reaching values of a few ohms or tenths of ohms; **attenuation** is limited in low frequencies (2-7 dB), but grows to **30 dB** in high frequencies. System performance is directly influenced by installation quality, confirming the critical role of correct installation procedures.

BENEFITS - Effective reduction of electromagnetic noise, high performance in complex industrial environments, compliance with strain relief standards according to **EN 62444**.

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