

# SOFIX<sup>®</sup> POWER CABLE ASSEMBLIES

Part of the Metral<sup>®</sup> Backplane Connector Family

## OVERVIEW

Higher input/output density and signal speeds demand management of EMC. The Sofix<sup>®</sup> front I/O interconnect system is comprised of right-angle headers and cable plugs that are suitable for the distribution of power and signals.

Sofix<sup>®</sup> connectors are fully shielded down to the PCB level to provide EMC shielding at the sub-rack/front panel level. When used with appropriate cables, the emission level from these links is well below IEC/CISPR 22 and FCC part 15 class B requirements.

Sofix<sup>®</sup> power connectors feature a robust design and are suitable for applications in systems with slot pitch as low as 15mm. The design rules for the Sofix<sup>®</sup> family of I/O connectors are derived from the Metral system (IEC 61076-4-104). As such, the Sofix<sup>®</sup> system can be used as complement to the Metral backplane connector family or applied as dedicated I/O solution.



## FEATURES & BENEFITS

- Unique EMC properties
- 10 Amps per power contact
- According to IEC 60950 and UL 1950
- Hot pluggable
- Robust design
- 15mm slot pitch
- RoHS-compliant design

## TARGET MARKETS/APPLICATIONS

- Communication
- Instrumentation
- Medical
- Hazardous environments





## TECHNICAL INFORMATION

### MATERIALS

- Plug
  - Housing: Polybutylene terephthalate (PBT UL94V-0)
  - Terminals: Copper alloy
  - Covers: Zinc alloy
- Header
  - Housing: Liquid crystal polymer (UL94V-0)
  - Terminals: Copper alloy
  - Covers: Zinc alloy
  - Ground spring: Stainless steel

### ELECTRICAL PERFORMANCE

- Current rating: 10 A per contact
- Withstanding voltage: 1000V RMS
- Initial insulation resistance: 5000MΩ min.

### MECHANICAL PERFORMANCE

- Insertion force: 20 N max.
- Durability: 200 cycles (Telcordia)
- Temperature range: -40°C to +70°C

## PART NUMBERS

Description	Part Numbers
Header Right Angle with 15 Amp Filter	72846-204LF
Cable Connector Kit	72824-201LF

### SPECIFICATIONS

- Header: GS-12-307
- Cable connector: GS-12-308
- Recommended cable specification:
  - Copper 2.5mm<sup>2</sup>
  - Overall Ø 1.95mm
  - Total diameter Ø 8.0mm max.
- Packaging specification: GS-14-1093
- Per Telecordia GR1217-CORE, central office requirements

### CERTIFICATIONS & APPROVAL

- Underwriters Laboratories Inc. (UL file no. E66906)
- Canadian Standards Association (CSA file no. LR46923)

### PACKAGING

- Headers: Tubes
- Header accessories: Bags
- Cable connector components: Bags