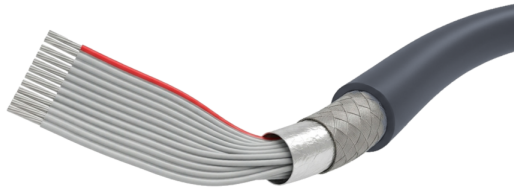
# ROUNDFLAT LSZH SHIELDED

**-20°C to +80°C, 300V**



## Construction
**Conductor:** Tinned Copper · Stranded
**Core Insulation:** Extruded · XLPE
**Cabling:** Parallel · Flat ribbon core wrapped under common round jacket
**Core Identification:** Grey ribbon with Red polarity stripe on Core 1
**Binder:** PET Tape
**Shield:** Foil Braid · Aluminum/Polyester + Tinned Copper
**Jacket:** Extruded · LSZH

## Thermal Characteristics
**Operating Temperature:** -20°C to +80°C
**Max. Core Insulation Temp.:** +105°C (cross-linked inner ribbon)

## Electrical Characteristics
**Operating Voltage:** 300V
**Test Voltage:** 2000V

## Application
**Signal and Control Connections:** For signal transmission and control connections within industrial machinery and equipment.
**Sensors and Instrumentation:** For connections between sensors, measuring instruments and associated control equipment.
**Control Cabinets:** For wiring within control cabinets, control panels and electrical assemblies.

## General Characteristics
**EMC Interference Shielding:** Metallic shielding helps suppress electromagnetic interference and maintain signal integrity in electrically noisy environments.
**Soldering Heat Resistance:** Cross-linked insulation resists melt-back, shrinkage, and deformation during soldering and assembly.
**Precision Pitch Accuracy:** Tightly controlled conductor-to-conductor spacing ensures reliable one-step IDC mass termination.

## Standards & Approvals
**UL 758:** UL 758 Appliance Wiring Material, Style 21307 (Style 4478 core).
**CSA C22.2 No. 210:** cUL Appliance Wiring Material, Class I/II Group A/B.
**Halogen-Free:** EN 50525-1 Annex B / IEC 60754-1 & IEC 60754-2
**Low Smoke:** EN 61034-2 / IEC 61034-2

## Fire Performance
**Fire Retardant:** FT2 / IEC 60332-1-2

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.
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CABLES FOR EXTREMES

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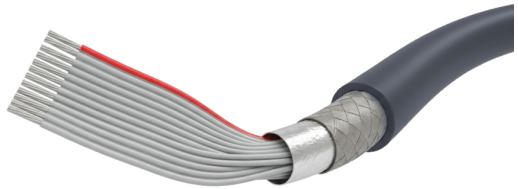

| CASMO Part No. | Total Cores | Conductor | | | Nom. Conductor Pitch (mm) | Nom. Inner Ribbon Width (mm) | Nom. Inner Ribbon Thickness (mm) | Min. Braid Coverage (%) | Cable | | | Max. DCR @20°C (Ω/km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Conductor Size (AWG) | No. Of Strands | Nom. Strand Dia. (mm) | | | | | Nom. Jkt. Thickness (mm) | Nom. O.D. (mm) | O.D. Tolerance ± (mm) | |
| 1271049F28 | 9 | 28 | 7 | 0.127 | 1.27 | 11.43 | 0.89 | 85 | 0.80 | 6.9 | 0.76 | 239 |
| 12710410F28 | 10 | 28 | 7 | 0.127 | 1.27 | 12.70 | 0.89 | 85 | 0.80 | 6.9 | 0.76 | 239 |
| 12710414F28 | 14 | 28 | 7 | 0.127 | 1.27 | 17.78 | 0.89 | 85 | 0.80 | 7.9 | 0.76 | 239 |
| 12710415F28 | 15 | 28 | 7 | 0.127 | 1.27 | 19.05 | 0.89 | 85 | 0.80 | 7.9 | 0.76 | 239 |
| 12710416F28 | 16 | 28 | 7 | 0.127 | 1.27 | 20.32 | 0.89 | 85 | 0.80 | 7.9 | 0.76 | 239 |
| 12710420F28 | 20 | 28 | 7 | 0.127 | 1.27 | 25.40 | 0.89 | 85 | 0.80 | 8.6 | 0.76 | 239 |
| 12710424F28 | 24 | 28 | 7 | 0.127 | 1.27 | 30.48 | 0.89 | 85 | 0.80 | 9.4 | 0.76 | 239 |
| 12710425F28 | 25 | 28 | 7 | 0.127 | 1.27 | 31.75 | 0.89 | 85 | 0.80 | 9.4 | 0.76 | 239 |
| 12710426F28 | 26 | 28 | 7 | 0.127 | 1.27 | 33.02 | 0.89 | 85 | 0.80 | 9.4 | 0.76 | 239 |
| 12710430F28 | 30 | 28 | 7 | 0.127 | 1.27 | 38.10 | 0.89 | 85 | 0.80 | 10.4 | 0.76 | 239 |
| 12710434F28 | 34 | 28 | 7 | 0.127 | 1.27 | 43.18 | 0.89 | 85 | 0.80 | 10.4 | 0.76 | 239 |
| 12710436F28 | 36 | 28 | 7 | 0.127 | 1.27 | 45.72 | 0.89 | 85 | 0.80 | 10.9 | 0.76 | 239 |
| 12710437F28 | 37 | 28 | 7 | 0.127 | 1.27 | 46.99 | 0.89 | 85 | 0.80 | 10.9 | 0.76 | 239 |
| 12710440F28 | 40 | 28 | 7 | 0.127 | 1.27 | 50.80 | 0.89 | 85 | 0.80 | 10.9 | 0.76 | 239 |
| 12710450F28 | 50 | 28 | 7 | 0.127 | 1.27 | 63.50 | 0.89 | 85 | 0.80 | 12.2 | 0.76 | 239 |
| 12710460F28 | 60 | 28 | 7 | 0.127 | 1.27 | 76.20 | 0.89 | 85 | 0.80 | 13.0 | 0.76 | 239 |
| 12710464F28 | 64 | 28 | 7 | 0.127 | 1.27 | 81.28 | 0.89 | 85 | 0.80 | 13.7 | 0.76 | 239 |

**Table Notes**

1. Inner Ribbon Width = finished flat ribbon width (W = 1.27 × N mm; conductor pitch 1.27 ± 0.05 mm); Nom. O.D. = finished outer jacket diameter.
2. Standard inner ribbon color is Grey with Red Core-1 stripe (GR); custom color sequences and Split/Bond intervals available on request.

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