MULL'AIR 400

LAPP MULLER's 400 Hz Ground Power Cable Range for Aircraft



Since 1939, we at LAPP MULLER have built our reputation on custom cables and high-performance solutions. As the high-technology division of the LAPP Group for over 20 years, we leverage extensive expertise in designing and producing specialized cables, including dynamic, hybrid, and customized solutions that integrate electrical, pneumatic, optical, and hydraulic functions. Supported by our design office, project engineers, and cable-connector-anchoring systems, we continuously innovate to meet diverse industry needs.

In the aviation sector, airport platforms are prioritizing emission reductions, with ground operations serving as a key driver for decarbonization. Electrification is central to this transition, and we are leading the way with advanced cabling solutions. Our MULL'AIR range offers 400Hz and 28DC cables for aircraft ground power supply, available in fixed, mobile, or reel configurations for civil and military aviation. Designed to meet specific requirements, our cables feature compact designs, reduced diameters, optimized weight, and great flexibility even at low temperatures, ensuring ease of use for ground operators. The resistance to mechanical stresses, UV rays, and weather conditions, as well as to abrasion, allows for a long lifespan on airport runways.

For customized needs, we go beyond standard offerings. With a historical experience in the development of custom cables, we provide tailored solutions. LAPP MULLER deliver tailored solutions that meet unique specifications in type, design, mechanical or thermal properties and manufacture. Our nearly unlimited production possibilities ensure that we can fulfill even the most specific requirements, adapting fully to our customers' needs. Rest assured you will be in direct contact with LAPP MULLER throughout the entire process: from the enquiry qualification, to the feasibility check, through to the provision of quotations and logistical handling, we will always be in close contact with you.

Scan the QR code
to learn more about us

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MULL'AIR 400

LAPP Muller's 400 Hz Ground Power Cable Range for Aircraft





- Extra flexible copper conductors
- Abrasion-resistant and halogen-free PUR jacket
- Optimized construction for durability
- Low bending radius, highly flexible and easy to handle
- Operating temperature: -30°C to +80°C
- UV, weather & Oil resistance
- Fixe, mobile or reeling applications
- Low minimum order quantity
- Customised solutions are also available on request



Composition of the MULL'AIR Range

Product Name	Nb Core x Cross Section	Article Number
MULL'AIR 400	7x25 mm² + 6x3x1 mm² 7x35 mm² + 6x3x1 mm² 7x35 mm² + 6x4x1 mm²	055081 047798 118337
MULL'AIR 400 E-FLEX Extra-flexible & reelable cable	7x35 mm² + 6x3x1 mm² 7x35 mm² + 6x4x1 mm²	040798 046819
MULL'AIR FLEX 1 Single core with control wires cable	1x35 mm² + 4x1 mm² 1x50 mm² + 4x1 mm² 1x70 mm² + 4x1 mm² 1x120 mm² + 4x1 mm²	111296 118334 078382 069846
MULL'AIR 400 FLEX 3 3-twisted cores with control wires	3x(50 mm²+8 x2.5 mm²+8x1 mm²) 3x(70 mm²+10 x2.5 mm²+8x1 mm²)	117975 057795
MULL'AIR 400 FLEX 4 4-twisted cores with control wires	4x(1x50 mm² + 4x1 mm²) 4x(1x70 mm² + 4x1 mm²)	118335 058526

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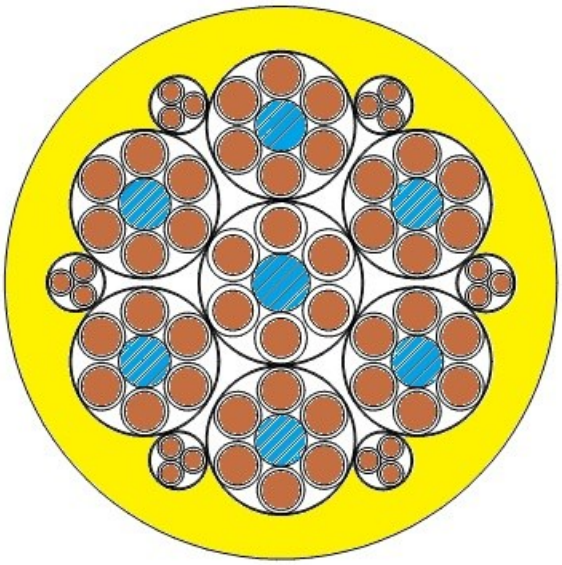
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MULL'AIR 400 GOLD - 7x24mm² + 18x1mm²

LAPP MULLER'S 400 Hz Ground Power Cable Range for Aircraft

New Product



Construction

- **24 mm² power conductor:** Extra-flexible red copper
- **Core Insulation:** TPE (Thermoplastic Elastomer) insulated
- **Assembling:** Conductor with stranded wires (6x4)
- **Core identification:** White with Black Numbers 1–7
- **1mm² Control Conductor:** Extra-flexible red copper
- **Core Insulation:** TPE (Thermoplastic Elastomer) insulated
- **Assembling**: Twisted by triads under a tape
- **Core identification:** White with black numbers 1–18
- **Outer sheath:** Halogen free polyurethane
- **Sheath colour:** Yellow - *Other colors are available on request*

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Key features

- **Designed to withstand the extreme conditions** of airport runways and facilitate use by ground staff.
- **Innovative Construction**: Its patented design allows this cable to withstand the same amperage as a standard 7 x 35 mm² cable and exceeds that of a 7 x 25 mm² cable.
- **Lightweight and flexible**: the optimized conductor cross section reduces the weight of the cable and improves its flexibility, which facilitates the electrical connection between the ground generator and the aircraft.
- **Increased reliability**: The multi-strand core design prevents conductor breakage and extends the life of the cable.
- Assembly with standard 400Hz connectors

Technical Data

- **24 mm² Conductors:**
  - Operating voltage: 115/200V
  - Linear resistance : ≤ 1.11 Ω/km (at 20°C)
  - Max. Permissible temperature : 80°C (core)
  - Current rating : 260A (at 30°C for 2 conductors)
  - Drop Voltage : 6V max/25m/90 kVA
- **1 mm² Conductors:**
  - Operating voltage : 250V
  - Linear resistance: ≤ 21.5 Ω/km (at 20°C)
- **Temperature range**: -20°C to +70°C
- **Minimum bending radius:**
  - 4x cable Ø in static use
  - 6x cable Ø in dynamic use
- **Properties:**
  - UV, oil and weather resistant
  - Good abrasion resistance
  - Flame-retardant according IEC 60332-1

Article number	Construction	Diameter	Copper Index (Kg/m)	Weight (Kg/m)
109212	7x24mm²+18x1mm²	36 ± 0.8 mm	1,74	2.6

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