



Photo: HELUKABEL®

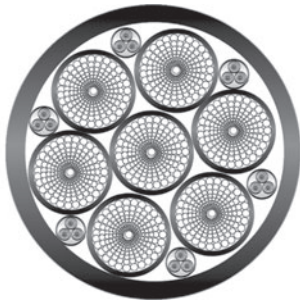
## Cables for airport 400 Hz

Special cable for drum reeling purpose meeting the highest mechanical stresses. Mobile cable in flexible feeds in 400 Hz units, especially as aircraft feeder line on airports. The qualified employees of our special cable department will give individual advice and assistance to develop and construct your cable.

Your personal advice is important to us in order that we can offer you the right cable for your purpose. Depending on the cable type these special cables can be offered with a minimum length of 100 m, with short delivery periods.

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# AIRPORT 400 Hz trailing, PUR, halogen-free, flame retardant



## Technical data

- **Temperature range**  
-40 °C to +90 °C
- **Nominal voltage**  
115/200 V
- **Operating voltage**  
 $U_0/U$  0,6/1 kV
- **Test voltage**  
4000 V
- **Bending radius**  
flexing 7x cable  $\varnothing$   
fixed installation 4x cable  $\varnothing$

## Cable structure

- Fine copper wire in acc. with DIN VDE 0295 and IEC 60228
  - Core insulation TPE, black with number 1-6 + blue/..., with number 7-30/1 mm<sup>2</sup>
  - 4 cores each 1 mm<sup>2</sup> twisted to a quad
  - Cores and 6 bundles laid-up together
  - PUR inner sheath
  - Support braiding
  - PUR outer sheath, orange (RAL 2003)
- Part No. 75992**
- Bare copper conductor, 7 strands
  - Core insulation cross-linked polyethylene, black with number 1-6 + grey
  - Polyethylene inner sheath
  - Concentric conductor of plain Cu wires, cross-section 35 mm<sup>2</sup>
  - Black polyethylene outer sheath

## Properties

- Low adhesion, abrasion resistant, halogen-free, resistant to UV-, oil-, hydrolysis and microbial attack

## Special feature:

The use of four-core cables to transmit large amounts of power in a 400 Hz grid results in voltage asymmetries and larger inductive voltage losses. These unfavourable cable characteristics can be improved through the employment of seven-core cables. In this case the central core is used as a protective or earth conductor (green/yellow or blue) and six cores with the same cross-section (black with imprint) stranded in a single layer around the central core. Each pair of two opposite cores is connected in parallel to a phase conductor.

## Note

- Distribution only over authorised partner

## Application

400 Hz cables are used to supply power to aircraft (on-board power), data processing systems, radar stations, radio stations, etc. For safety reasons, 400 Hz cables are used to connect data processing systems, radar systems and communications systems to uninterruptible power supplies. Such power supplies prevent a total failure of power and compensate for frequency and voltage fluctuations. Suitable for installation indoors, outdoors.

## Applications:

Below floor level cable dispensers (drums), attached to jetways and retractable articulated cable carries.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
700573	7 x 25 + 6 x 4 x 1,0	41,0	1910,0	2140,0	4
770009	7 x 35 + 6 x 4 x 1,0	45,5	2625,0	2950,0	2
700574	7 x 50 + 6 x 4 x 1,0	51,0	3590,0	4030,0	1

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
75992	7 G 35	35,8	2746,0	3050,0	2

Dimensions and specifications may be changed without prior notice.

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## Technical data

- **Temperature range**  
-40 °C to +90 °C
- **Nominal voltage**  
115/200 V
- **Operating voltage**  
 $U_0/U$  0,6/1 kV
- **Test voltage**  
4000 V
- **Bending radius**  
approx. 6x cable  $\varnothing$

## Cable structure

- Part Nos. 700566-700569**
- Fine copper wire in acc. with DIN VDE 0295 and IEC 60228
  - Special plastic core insulation
  - Sheath colour yellow (RAL 1021)
- Part Nos. 700570, 770001-770003**
- Fine copper wire in acc. with DIN VDE 0295 and IEC 60228
  - Core insulation TPE, grey with number 1-4/1 mm<sup>2</sup>
  - Core 1 mm<sup>2</sup> stranded with bundle conductor
  - Double-sheath TPE/PUR
  - Sheath colour yellow (RAL 1021)
- Part Nos. 700571, 770005, 770004, 700572**
- Each set of 4 parts, 700570, 770001-770003, is stranded

## Properties

- Part Nos. 700570, 770001-770003**
- Low adhesion, abrasion resistant, halogen-free, resistant to UV-, oil-, hydrolysis and microbial attack

## Note

- Distribution only over authorised partner

## Application

400 Hz cables are used to supply power to aircraft (on-board power), data processing systems, radar stations, radio stations, etc. For safety reasons, 400 Hz cables are used to connect data processing systems, radar systems and communications systems to uninterruptible power supplies. Such power supplies prevent a total failure of power and compensate for frequency and voltage fluctuations. Suitable for installation indoors, outdoors. Highly flexible, and can thus be plugged directly into the connector in the aircraft without an adapter, and without endangering the contacts.

CE – The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
700566	1 x 35	11,5	336,0	430,0	2
700570	1 x 35 + 4 x 1,0	14,0	375,0	490,0	2
770001	1 x 50 + 4 x 1,0	17,0	519,0	600,0	1
700567	1 x 50	12,6	480,0	665,0	1
700568	1 x 70	14,0	672,0	910,0	2/0
770002	1 x 70 + 4 x 1,0	18,7	711,0	800,0	2/0
770003	1 x 120 + 4 x 1,0	25,0	1191,0	1400,0	4/0
700569	1 x 120	23,0	1152,0	1545,0	4/0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
700571	4 x 1 x 35 + 4 x 1,0	33,0	1498,0	2600,0	2
770005	4 x 1 x 50 + 4 x 1,0	40,0	2074,0	3900,0	1
770004	4 x 1 x 70 + 4 x 1,0	50,0	2844,0	4300,0	2/0
700572	4 x 1 x 120 + 4 x 1,0	56,0	4765,0	7400,0	4/0

Dimensions and specifications may be changed without prior notice.