

HELUKAT 300, Part No. 804548
Cat. 6; LAN 4x2xAWG 24/1 U/UTP LSZH



Applications

Trunk cable for local area network, Indoor use, fixed installations, High data rates.

General construction

The cable contains 4 twisted pairs, cabled together and in U/UTP structure without EMC shielding. Separating cross element constructed on MDPE compound for stabilization the complete cable. Outer jacket LSZH compound, grey for indoor use only. Maximum length for installation 100m.

Outer jacket

Material: LSZH compound.

Color: grey similar to RAL 7035.

OD: 6.8 mm. nom.

Conductors

Material: Bare copper.

OD: 0.55 mm, 24/1 AWG.

Insulation material: PE compound.

Insulation OD: 1.25 mm.

Color code: White X Blue, White X Orange, White X Green, White X Brown.

Shields

Individually pair: --.

Overall: --

Braid coverage: --.

General properties

Weight: 46 Kg/km nom.

Caloric load: approx. value 0.57 MJ/m.

Min. Bending radius: 30 mm (single), 55mm (repeated)

Operating temperature range: -20°C - +60°C.

Electrical characteristics (20°C)

Conductor DC resistance: 95 Ω /km max.

Resistance unbalance: 1% max.

Pair capacitance: 50 pF/m nom.

Capacitance unbalance: 2 pF/m max.

Dielectric strength between conductors: 500 Vac/min.

Dielectric strength conductors to shield: 500 Vac/min.

Transmission characteristics

Frequency range: 1 – 300 MHz.

Characteristics impedance: 100 Ω ±15%

NVP (Nominal Velocity of Propagation): 67%

Operation Voltage: max. 100V (not for power use).

Transmission performance table

Frequency [MHz]	1	10	16	31,25	62,5	100	250	300
Attenuation [dB/100m]	1,8	5,6	7,0	10,1	14,3	18,2	30,3	32,5
NEXT [dB]	90	72	70	67	65	63	56	55
ACR [dB]	88,2	66,4	63	56,9	50,7	44,8	25,7	22,5

Applicable Standards:

ISO/IEC 11801, RoHS 2002/95/EC, IEC60332-3-24, IEC 60754-2, IEC 61034, 3, EN 50173, EIA/TIA 568A.

Printing style:

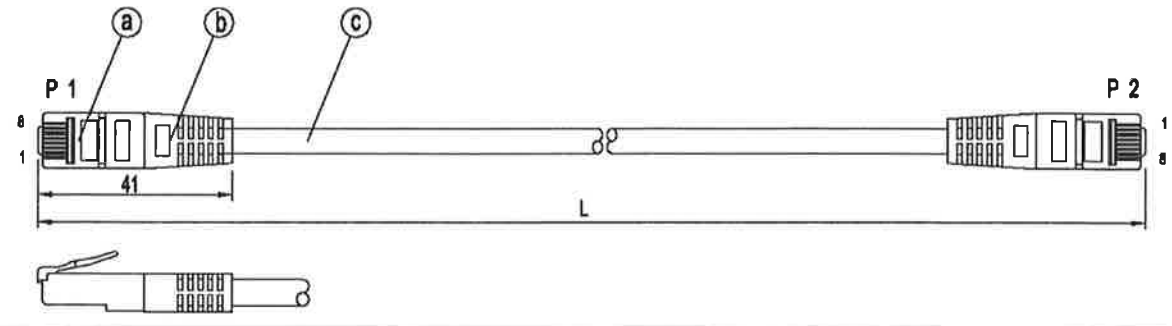
According HELUKABEL Printing Device

Notes:

- 1) MM month of production, YY year of production.
- 2) indicate space.
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Depending to printing rules of Helukabel

HELUKABEL RJ45 Patchcord, Part No. 803098 Cat. 6; LAN 4x2xAWG 24/7 U/UTP PVC



- a) connector RJ45 8/8 shielded, gold plated 3-50µm
- b) protective sleeve PVC 75A
- c) cable

Applications

Patchable. For flexible installations only. Max. Distance 10m. To connect active and passive components inside distribution boxes and server racks or PC in office buildings.

General construction

LAN cable unshielded with 4 pair AWG 24/7 twisted wires for high data rates up to 1000Mbit/s. Both side harnessed with RJ45 connectors shielded and protective sleeve.

Length: 1m±10mm

Outer jacket

Material: PVC.

Color: grey.

OD: 5.9 mm. nom.

Wire

Material: flexible copper.

OD: 24/7 AWG, 1.05mm

Insulation material: HDPE compound.

Color code: 1) white X orange, 2) white X green, 3) white X blue, 4) white X brown.

Standard: EIA/TIA T568B

Shields

Individually pair: unshielded.

Overall: unshielded.

Braid coverage: --.

Electrical characteristics (20°C)

Conductor DC resistance: 80 Ω/km max.

Resistance unbalance: 2% max.

Pair capacitance: 50 nF/km nom.

Capacitance unbalance: 2 pF/m max.

Dielectric strength between conductors: 500 Vac/min.

Dielectric strength conductors to shield: 500 Vac/min.

Transmission characteristics

Frequency range: 1 – 250 MHz.

Characteristics impedance: 100 Ω.

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	16	31,2	62,5	100	200	250
Attenuation [dB/100m]	2,15	4,02	8,04	11,38	16,45	21,26	31,47	43,67
NEXT [dB]	65	63,04	53,23	48,42	43,38	39,93	34,78	33,09
ACR [dB]	62,85	59,02	45,19	37,04	26,93	18,67	3,31	-10,58

Applicable Standards:

ISO/IEC 11801, RoHS 2002/95/EC, EN 50173, IEC 60332-1

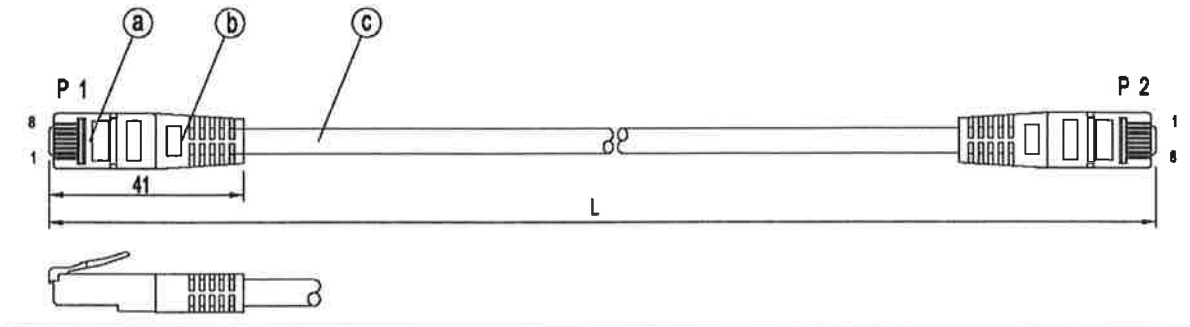
Printing style:

HELUKAT@250, U/UTP 4x2xAWG24/7 PVC ISO/IEC 11801 TIA/EIA 568B IEC 60332-1
MM/YY RoHS

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HELUKABEL RJ45 Patchcord, Part No. 803100 Cat. 6; LAN 4x2xAWG 24/7 U/UTP PVC



- a)connector RJ45 8/8 shielded, gold plated 3-50µm
- b)protective sleeve PVC 75A
- c)cable

Applications

Patchable. For flexible installations only. Max. Distance 10m. To connect active and passive components inside distribution boxes and server racks or PC in office buildings.

General construction

LAN cable unshielded with 4 pair AWG 24/7 twisted wires for high data rates up to 1000Mbit/s. Both side harnessed with RJ45 connectors shielded and protective sleeve.

Length: 3m±30mm

Outer jacket

Material: PVC.

Color: grey.

OD: 5.9 mm. nom.

Wire

Material: flexible copper.

OD: 24/7 AWG, 1.05mm

Insulation material: HDPE compound.

Color code: 1) white X orange, 2) white X green, 3) white X blue, 4) white X brown.

Standard: EIA/TIA T568B

Shields

Individually pair: unshielded.

Overall: unshielded.

Braid coverage: --.

Electrical characteristics (20°C)

Conductor DC resistance: 80 Ω/km max.

Resistance unbalance: 2% max.

Pair capacitance: 50 nF/km nom.

Capacitance unbalance: 2 pF/m max.

Dielectric strength between conductors: 500 Vac/min.

Dielectric strength conductors to shield: 500 Vac/min.

Transmission characteristics

Frequency range: 1 – 250 MHz.

Characteristics impedance: 100 Ω.

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	16	31,2	62,5	100	200	250
Attenuation [dB/100m]	2,15	4,02	8,04	11,38	16,45	21,26	31,47	43,67
NEXT [dB]	65	63,04	53,23	48,42	43,38	39,93	34,78	33,09
ACR [dB]	62,85	59,02	45,19	37,04	26,93	18,67	3,31	-10,58

Applicable Standards:

ISO/IEC 11801, RoHS 2002/95/EC, EN 50173, IEC 60332-1

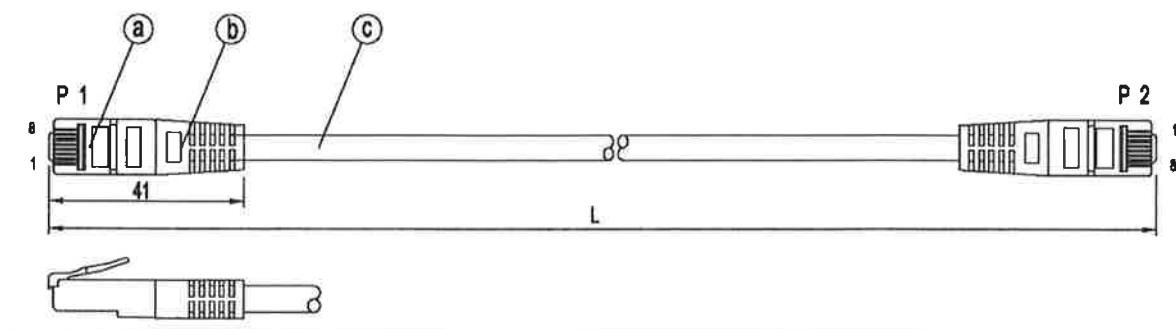
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HELUKABEL RJ45 Patchcord, Part No. 803101 Cat. 6; LAN 4x2xAWG 24/7 U/UTP PVC



- a)connector RJ45 8/8 shielded, gold plated 3-50µm
- b)protective sleeve PVC 75A
- c)cable

Applications

Patchable. For flexible installations only. Max. Distance 10m. To connect active and passive components inside distribution boxes and server racks or PC in office buildings.

General construction

LAN cable unshielded with 4 pair AWG 24/7 twisted wires for high data rates up to 1000Mbit/s. Both side harnessed with RJ45 connectors shielded and protective sleeve.

Length: 5m±50mm

Outer jacket

Material: PVC.

Color: grey.

OD: 5.9 mm. nom.

Wire

Material: flexible copper.

OD: 24/7 AWG, 1.05mm

Insulation material: HDPE compound.

Color code: 1) white X orange, 2) white X green, 3) white X blue, 4) white X brown.

Standard: EIA/TIA T568B

Shields

Individually pair: unshielded.

Overall: unshielded.

Braid coverage: --.

Electrical characteristics (20°C)

Conductor DC resistance: 80 Ω/km max.

Resistance unbalance: 2% max.

Pair capacitance: 50 nF/km nom.

Capacitance unbalance: 2 pF/m max.

Dielectric strength between conductors: 500 Vac/min.

Dielectric strength conductors to shield: 500 Vac/min.

Transmission characteristics

Frequency range: 1 – 250 MHz.

Characteristics impedance: 100 Ω.

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	16	31,2	62,5	100	200	250
Attenuation [dB/100m]	2,15	4,02	8,04	11,38	16,45	21,26	31,47	43,67
NEXT [dB]	65	63,04	53,23	48,42	43,38	39,93	34,78	33,09
ACR [dB]	62,85	59,02	45,19	37,04	26,93	18,67	3,31	-10,58

Applicable Standards:

ISO/IEC 11801, RoHS 2002/95/EC, EN 50173, IEC 60332-1

Printing style:

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