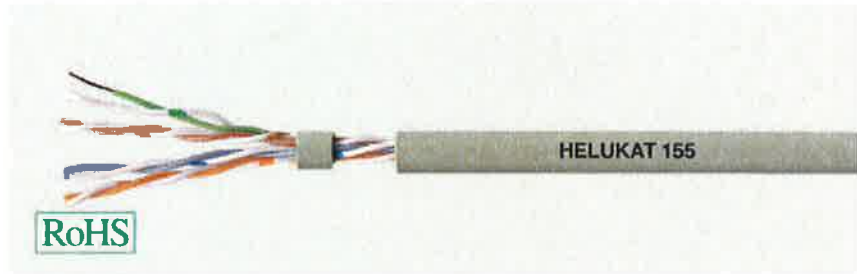
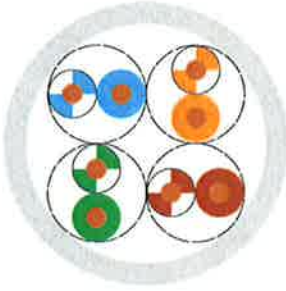


LAN-Kabel

Kategorie 5e

HELUKAT[®] 155
U/UTP



Aufbau

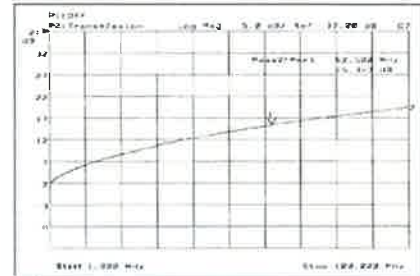
Innenleiterdurchmesser:
Leiter-Material:
Aderisolation:
Aderfarben:
Schirmung 1:
Schirm über Verseilelement:
Schirm 1 über Verseilung :
Schirm 2 über Verseilung :
Außenmantelmateriale:
Außendurchmesser:
Außenmantelfarbe:

U/UTP 4x2xAWG 24/1 PVC

0,51 mm
Kupfer, blank
PE
wsbl/bl, wsor/or, wsgn/gn, wsbr/br
-
-
-
PVC
ca. 4,9 mm
grau

Elektrische Daten

Wellenwiderstand: 100 Ohm ± 15 Ohm bei 1 bis 100 MHz
100 Ohm ± 20 Ohm bei 101 bis 155 MHz
Schleifenwiderstand: 190 Ohm/km max.
Betriebskapazität: 50 nF/km nom.
Rel. Ausbreitungsgeschwindigkeit: 66 %



Typische Werte

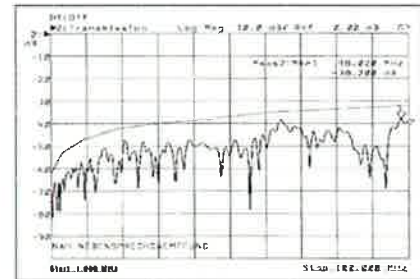
Frequenz (MHz)	10	16	62,5	100	155
Dämpfung (db/100m)	6,3	8,0	16,5	21,3	26,8
Next (db)	50,3	47,3	38,4	35,3	33,0
ACR (db)	44,0	39,3	21,9	14,0	6,2

Technische Daten

Gewicht: ca. 26 kg/km
Biegeradius, mehrmalig: 40 mm
Temperaturbereich Betrieb min.: -20°C
Temperaturbereich Betrieb max.: +60°C
Brandlast, Richtwert: 0,40 MJ/m
Cu-Zahl: 17,00 kg/km

Normen

Gem. ISO/IEC 11801, Gem. EN 50173, Gem. EIA/TIA 568-A, Kategorie 5e



Anwendung

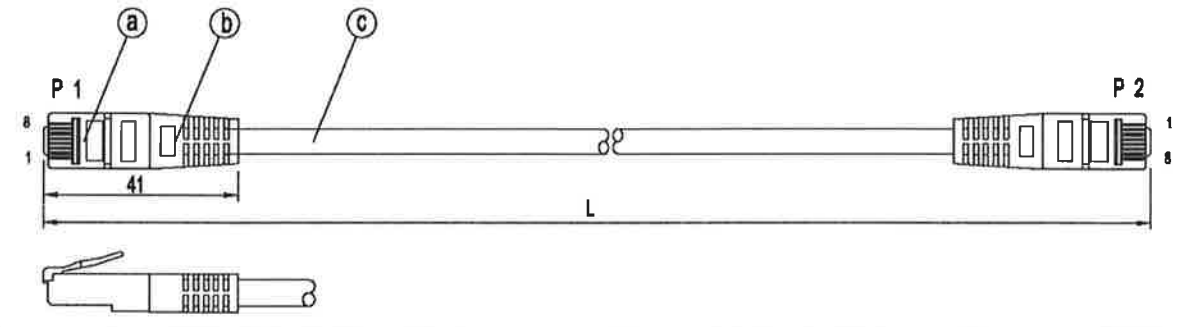
HELUKAT[®]155 Datenkabel werden im Tertiärbereich, aber auch im Sekundärbereich eines Netzwerkes eingesetzt. Sie zeichnen sich durch große Leistungsreserven und eine herausragende Performance aus. Damit realisieren Sie Dienste wie Fast Ethernet, Ethernet, ATM155, FDDI, Token Ring 4/16 Mbit/s oder ISDN absolut problemlos. Ebenso sind die mechanischen Eigenschaften durch optimierte Konstruktionen bestens auch zum Einsatz in engen Kabelkanälen und -bühnen geeignet.

Artikelnummer

80053, U/UTP 4x2xAWG24/1 PVC (UTP)

Technische Änderungen vorbehalten.

HELUKABEL RJ45 Patchcord, Part No. 804646 Cat. 5e; 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: 0,5m±5mm

Outer jacket

Material: PVC.

Color: grey.

OD: 5.4 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 – 125 MHz.

Characteristics impedance: 100 Ω .

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	10	16	31,2	62,5	100	155
Attenuation [dB/100m]	2,4	4,9	6,9	7,8	14,1	20,4	26,4	31,5
NEXT [dB]	62,3	53,3	48,8	47,3	41,3	39,9	35,4	32,3
ACR [dB]	59,9	48,4	41,9	39,5	27,2	19,5	9	0,8

Applicable Standards:

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

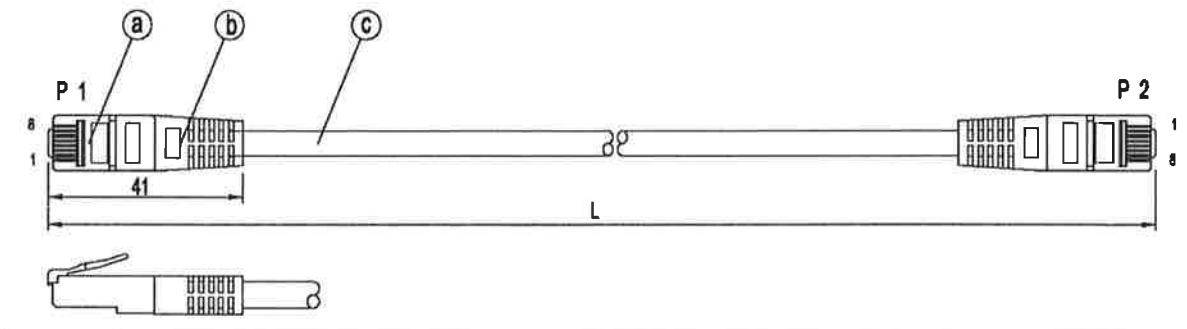
Printing style:

HELUKAT@155, U/UTP 4x2xAWG24/7 PVC ISO/IEC 11801 TIA/EIA 568B IEC 60332-1
MM/YY RoHS

Notes:

- 1) MM month of production, YY year of production.
- 2) indicate space.
- 3) indicate order No.
- 4) check mark

HELUKABEL RJ45 Patchcord, Part No. 804647 Cat. 5e; 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: 5.4 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 – 125 MHz.

Characteristics impedance: 100 Ω.

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	10	16	31,2	62,5	100	155
Attenuation [dB/100m]	2,4	4,9	6,9	7,8	14,1	20,4	26,4	31,5
NEXT [dB]	62,3	53,3	48,8	47,3	41,3	39,9	35,4	32,3
ACR [dB]	59,9	48,4	41,9	39,5	27,2	19,5	9	0,8

Applicable Standards:

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

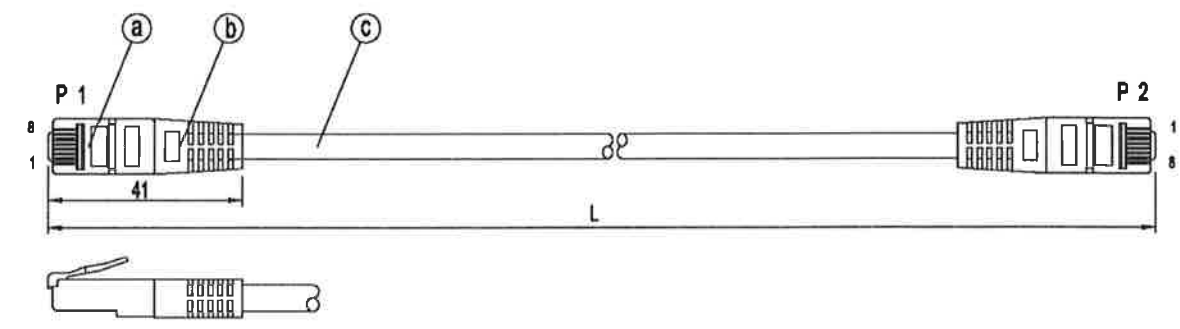
Printing style:

HELUKAT®155, U/UTP 4x2xAWG24/7 PVC ISO/IEC 11801 TIA/EIA 568B IEC 60332-1
MM/YY RoHS

Notes:

- 1) MM month of production, YY year of production.
- 2) indicate space.
- 3) indicate order No.
- 4) check mark

HELUKABEL RJ45 Patchcord, Part No. 804648 Cat. 5e; 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: 5.4 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 – 125 MHz.

Characteristics impedance: 100 Ω.

NVP (Nominal Velocity of Propagation): 67%

Transmission performance table

Frequency [MHz]	1	4	10	16	31,2	62,5	100	155
Attenuation [dB/100m]	2,4	4,9	6,9	7,8	14,1	20,4	26,4	31,5
NEXT [dB]	62,3	53,3	48,8	47,3	41,3	39,9	35,4	32,3
ACR [dB]	59,9	48,4	41,9	39,5	27,2	19,5	9	0,8

Applicable Standards:

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

Printing style:

HELUKAT@155, U/UTP 4x2xAWG24/7 PVC ISO/IEC 11801 TIA/EIA 568B IEC 60332-1
MM/YY RoHS

Notes:

- 1) MM month of production, YY year of production.
- 2) indicate space.
- 3) indicate order No.
- 4) check mark