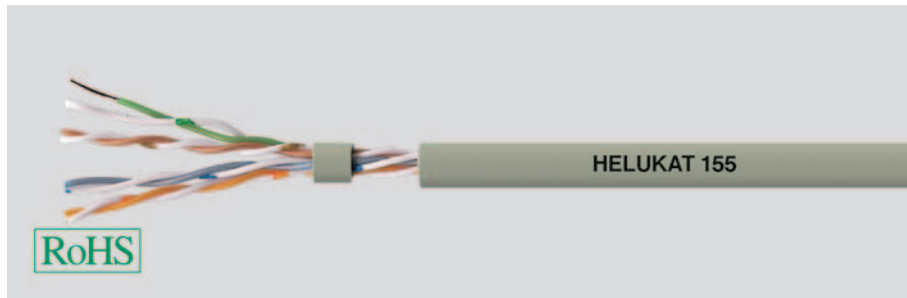
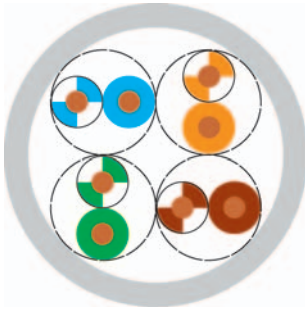


LAN Cable

Category 5e

HELUKAT® 155
U/UTP



Cable structure

Inner conductor Ø:	0,51 mm
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	-
Screen 2 over stranding:	-
Outer sheath material:	PVC
Outer diameter:	app. 4,9 mm
Outer sheath colour:	Grey

U/UTP 4x2xAWG 24/ 1 PVC

Electrical data

Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz 100 Ohm ± 20 ohm at 101 to 155 MHz
Loop resistance:	190 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Rel. propagation velocity:	66 %

Typical values

Frequency (MHz)	10	16	62,5	100	155
Attenuation (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

Technical data

Weight:	app. 26 kg/km
bending radius, repeated:	40 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,40 MJ/m
Copper weight:	17,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e

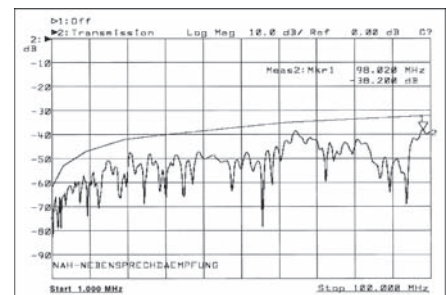
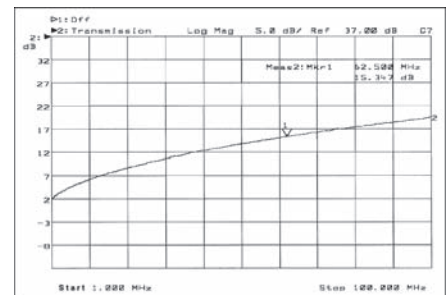
Application

HELUKAT®155 data cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.

Part no.

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

Dimensions and specifications may be changed without prior notice.

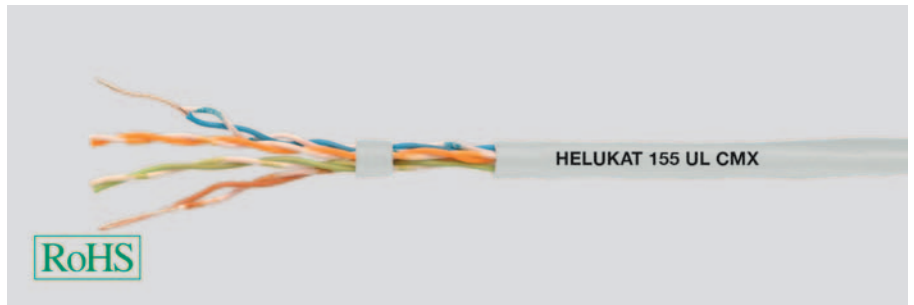
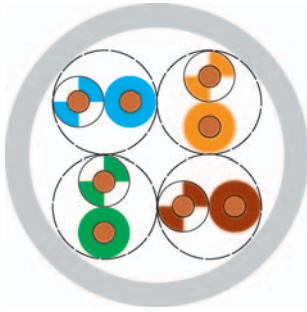


LAN Cable

Category 5e

HELUKAT® 155

U/UTP UL



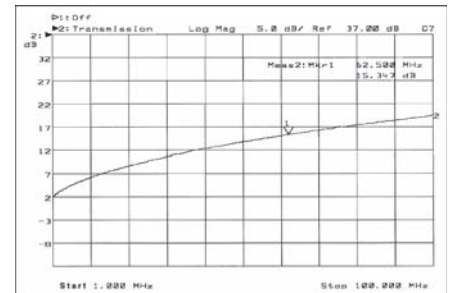
Cable structure

Inner conductor Ø:	0,53 mm
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	-
Screen 2 over stranding:	-
Outer sheath material:	PVC
Outer diameter:	app. 5,2 mm
Outer sheath colour:	Grey

U/UTP 4x2xAWG 24/1 PVC, UL

Electrical data

Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz 100 Ohm ± 20 ohm at 101 to 155 MHz
Loop resistance:	190 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Rel. propagation velocity:	66 %



Typical values

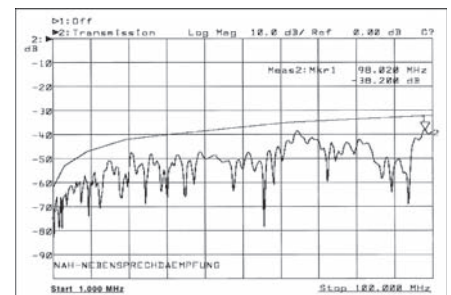
Frequency (MHz)	10	16	62,5	100	155
Attenuation (db/100m)	6,1	7,7	15,2	19,9	22,7
Next (db)	65,0	63,0	53,0	40,0	37,0
ACR (db)	58,9	55,3	37,8	20,1	14,3

Technical data

Weight:	app. 35 kg/km
bending radius, repeated:	42 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,43 MJ/m
Copper weight:	17,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant acc. to IEC 60332-1, Smoke density acc. to IEC 61034, CMX 444



Application

HELUKAT®155 data cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction. This type is certified according UL because of the special PVC jacket

Part no.

802171, U/UTP 4x2xAWG24/1 PVC UL (UTP)

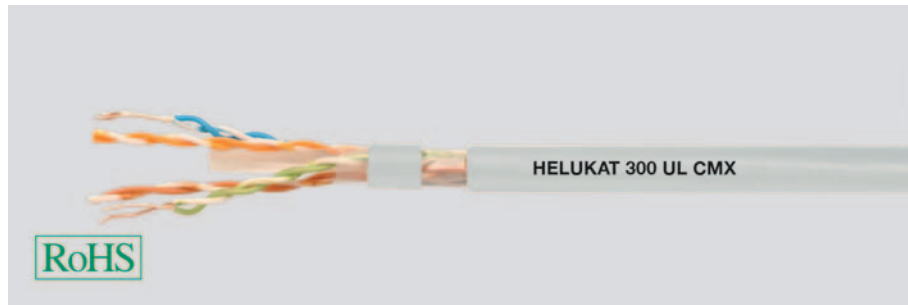
Dimensions and specifications may be changed without prior notice.

LAN Cable

Category 6

HELUKAT® 300

U/UTP UL

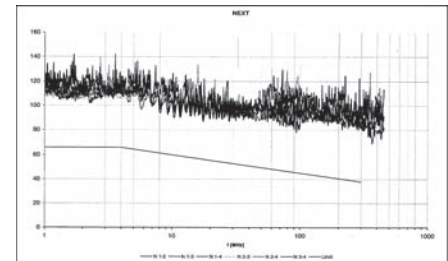


Cable structure

Inner conductor Ø:
Conductor material:
Core insulation:
Core colours:
Shielding 1:
Screen over stranding element:
Screen 1 over stranding:
Screen 2 over stranding:
Outer sheath material:
Outer diameter:
Outer sheath colour:

U/UTP 4x2xAWG 24/ 1 PVC, UL

0,55 mm
Copper, bare
PE
whbu/bu, whog/og, whgn/gn, whbn/bn
Polyester foil over stranded bundle
-
-
PVC
app. 6,3 mm
Grey



Electrical data

Characteristic impedance:
Loop resistance:
Mutual capacitance:
Rel. propagation velocity:

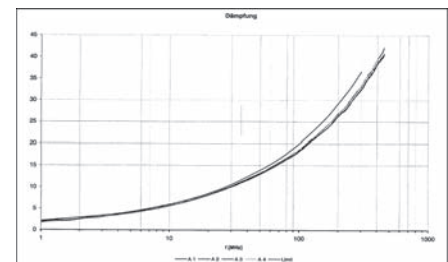
100 Ohm ± 15 ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm at 101 to 300 MHz
190 Ohm/km max.
50 nF/km nom.
67 %

Typical values

Frequency (MHz)	10	16	62,5	100	155	200	300
Attenuation (db/100m)	5,6	7,0	14,3	18,2	22,9	26,0	32,5
Next (db)	72,0	70,0	65,0	63,0	60,0	57,0	55,0
ACR (db)	66,4	63,0	50,7	44,8	37,1	31,0	22,5

Technical data

Weight: app. 46 kg/km
bending radius, repeated: 55 mm
Operating temperature range min.: -20°C
Operating temperature range max.: +60°C
Caloric load, approx. value: 0,68 MJ/m
Copper weight: 20,00 kg/km



Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6, Flame-retardant acc. to IEC 60332-1, Smoke density acc. to IEC 61034, CMX 444

Application

HELUKAT®300 data cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction. This type is certified according UL because of the special PVC jacket

Part no.

802172, U/UTP 4x2xAWG24/1 PVC UL (UTP)

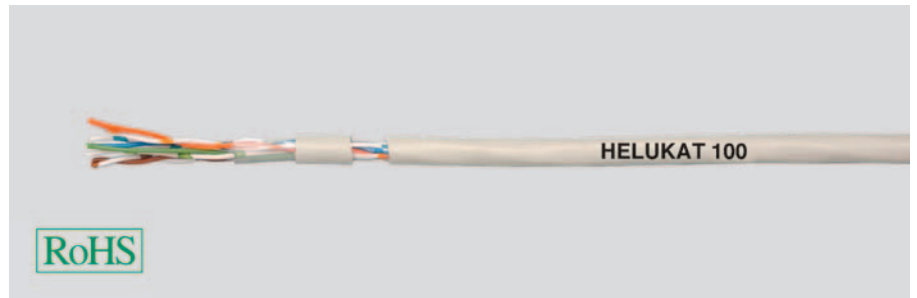
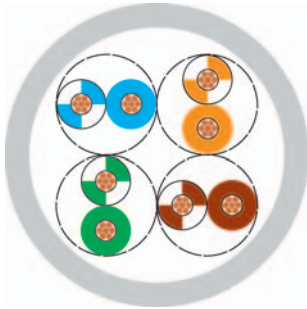
Dimensions and specifications may be changed without prior notice.

LAN-Cable

Category 5

HELUKAT® 100

U/UTP flex



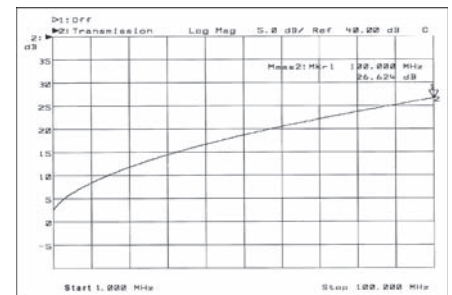
Cable structure

Inner conductor Ø:	0,48 mm
Conductor material:	Copper, bare
Core insulation:	PO
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	-
Screen 2 over stranding:	-
Outer sheath material:	PVC
Outer diameter:	app. 4,5 mm
Outer sheath colour:	Grey similar to RAL 7035

U/UTP 4x2xAWG 26/7 PVC

Electrical data

Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz
Loop resistance:	290 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Rel. propagation velocity:	74 %



Typical values

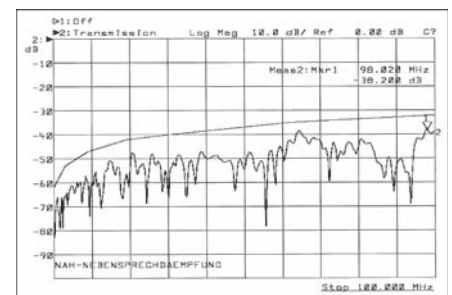
Frequency (MHz)	10	16	62,5	100
Attenuation (dB/10m)	0,9	1,2	2,4	3,1
Next (db)	53,0	50,0	41,0	38,0
ACR (db)	52,1	48,8	38,6	34,9

Technical data

Weight:	app. 17 kg/km
bending radius, repeated:	35 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,527 MJ/m
Copper weight:	11,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5



Application

HELUKAT®100 data cables are used in the tertiary level of a network as patch cables and connection cables. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. With its optimized construction, the HELUKAT®100 series can be manufactured quickly and easily with all common RJ45 plugs.

Part no.

80055, U/UTP 4x2xAWG 26/7 PVC (UTP)

Dimensions and specifications may be changed without prior notice.