LAN Cable
Category 5e

HELUKAT® 200

SF/UTP

Cable structure

SF/UTP 4x2xAWG 24/1 PVC

Inner conductor Ø:	0,51 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	Polyester foil, aluminium-lined
Screen 2 over stranding:	Cu braid
Outer sheath material:	PVC / FRNC
Outer diameter:	app. 6,0 mm / app. 6,0 mm
Outer sheath colour:	Grey similar to RAL 7035

Electrical data

Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz
	100 Ohm ± 20 Ohm at 101 to 200 MHz
Loop resistance:	185 Ohm/km max.
Mutual capacitance:	48 nF/km nom.
Rel. propagation velocity:	74 %

Typical values

Frequency	(MHz)	10	16	62,5	100	200
Attenuation	(dB/100m)	5,6	7,2	14,4	18,2	25,9
Next	(db)	62,0	59,0	50,0	46,0	40,0
ACR	(db)	56,4	51,8	35,6	27,8	14,6

Technical data

Weight:	app. 50 kg/km
bending radius, repeated:	52 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,60 MJ/m / 0,48 MJ/m
Copper weight:	28,00 kg/km

Norms

81610:
Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e
81609:
Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant:
acc. to IEC 60332-3, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness
acc. to EN50267-2-3

Application

HELUKAT®200 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.

Part no.

81610, SF/UTP 4x2xAWG 24/1 PVC (S-FTP)   **81609,** SF/UTP 4x2xAWG 24/1 FRNC (S-FTP)

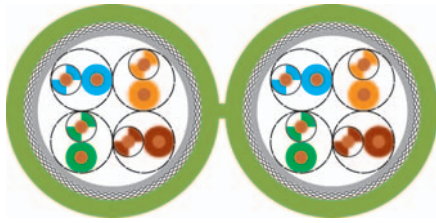Dimensions and specifications may be changed without prior notice.

HELUKABEL
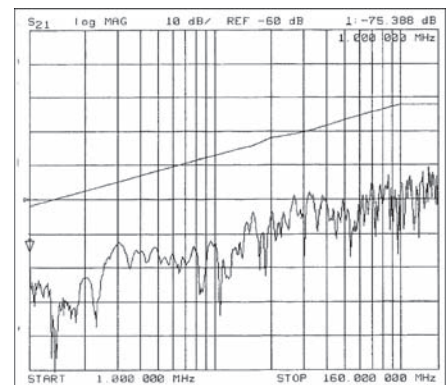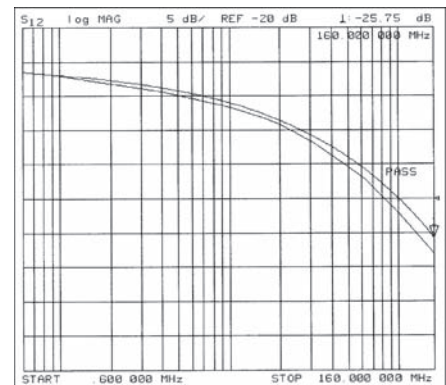
LAN Cable
Category 5e

HELUKAT® 200

SF/UTP duplex

RoHS

Cable structure

SF/UTP 2x(4x2xAWG 24/1) FRNC

Inner conductor Ø:	0,51 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	Polyester foil, aluminium-lined
Screen 2 over stranding:	Cu braid
Outer sheath material:	FRNC
Cable dimensions:	app. 6,0 mm x 12,5 mm
Outer sheath colour:	Green similar to RAL 6018

Electrical data

Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz
	100 Ohm ± 20 Ohm at 101 to 200 MHz
Loop resistance:	185 Ohm/km max.
Mutual capacitance:	48 nF/km nom.
Rel. propagation velocity:	74 %

Typical values

Frequency	(MHz)	10	16	62,5	100	200
Attenuation	(dB/100m)	5,6	7,2	14,4	18,2	25,9
Next	(db)	62,0	59,0	50,0	46,0	40,0
ACR	(db)	56,4	51,8	35,6	27,8	14,6

Technical data

Weight:	app. 100 kg/km
bending radius, repeated:	52 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,96 MJ/m
Copper weight:	56,00 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 60332-3, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

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Application

HELUKAT®200 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.

Part no.

81123, SF/UTP 2x(4x2xAWG 24/1) FRNC (S-FTP)

Dimensions and specifications may be changed without prior notice.
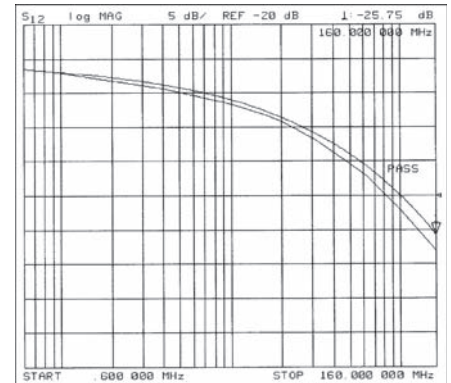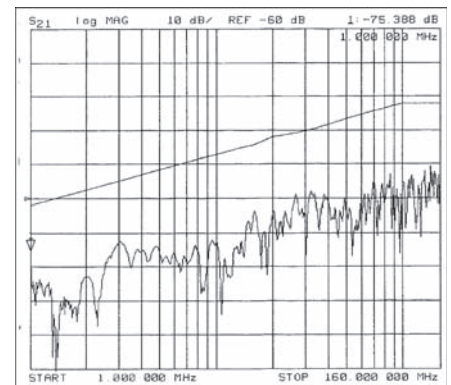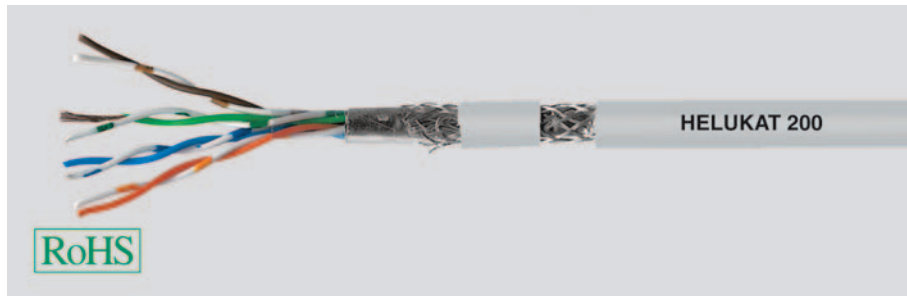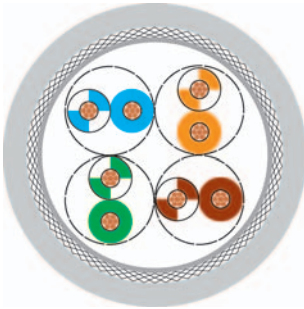
LAN Cable
Category 5e

HELUKAT® 200

SF/UTP flex

RoHS

Cable structure

SF/UTP 4x2xAWG 26/7 FRNC

Inner conductor Ø:	0,48 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	Polyester foil, aluminium-lined
Screen 2 over stranding:	Cu braid
Outer sheath material:	FRNC
Outer diameter:	app. 5,4 mm
Outer sheath colour:	Grey similar to RAL 7035

Electrical data

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Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz
	100 Ohm ± 20 Ohm at 101 to 200 MHz
Loop resistance:	300 Ohm/km max.
Mutual capacitance:	47 nF/km nom.
Rel. propagation velocity:	69 %
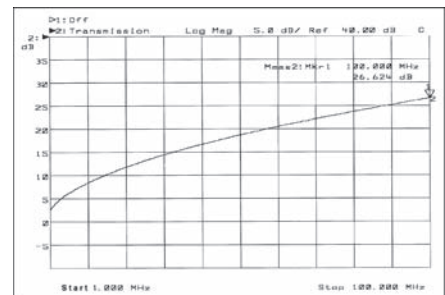
Typical values

Frequency	(MHz)	10	16	62,5	100	200
Attenuation	(dB/10m)	0,8	1,1	2,4	2,9	4,3
Next	(db)	58,0	56,0	45,0	43,0	37,0
ACR	(db)	57,2	54,9	42,6	40,1	32,7

Technical data

Weight:	app. 40 kg/km
bending radius, repeated:	46 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,543 MJ/m
Copper weight:	24,00 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, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3
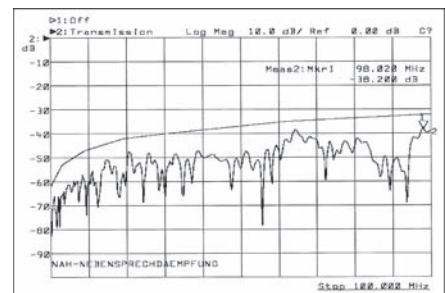
Application

HELUKAT®200 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 Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. With its optimized construction, the HELUKAT®200 series can be manufactured quickly and easily with all common RJ45 plugs.

Part no.

81254, SF/UTP 4x2xAWG 26/7 FRNC (S-FTP)

Dimensions and specifications may be changed without prior notice.

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