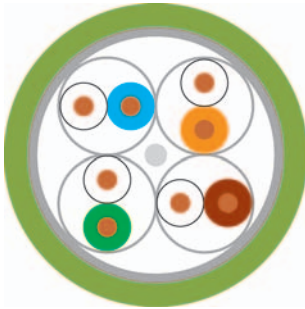


LAN Cable

Category 6

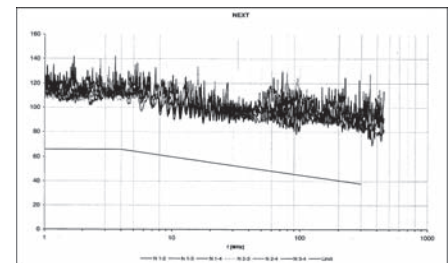
HELUKAT® 450
F/FTP

Cable structure

Inner conductor Ø: 0,52 mm
 Conductor material: Copper, bare
 Core insulation: Foam-skin-PE
 Core colours: wh/bu, wh/og, wh/gn, wh/bn
 Shielding 1: -
 Screen over stranding element: Polyester foil, aluminium-lined
 Screen 1 over stranding: Polyester foil, aluminium-lined
 Screen 2 over stranding: -
 Drain wire: yes
 Outer sheath material: FRNC
 Outer diameter: app. 7,4 mm
 Outer sheath colour: Green similar to RAL 6018

F/FTP 4x2xAWG 24/1 FRNC

0,52 mm
 Copper, bare
 Foam-skin-PE
 wh/bu, wh/og, wh/gn, wh/bn
 -
 Polyester foil, aluminium-lined
 Polyester foil, aluminium-lined
 -
 yes
 FRNC
 app. 7,4 mm
 Green similar to RAL 6018



Electrical data

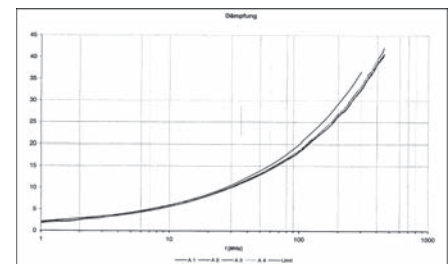
Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz
 100 Ohm ± 20 ohm at 101 to 450 MHz
 Loop resistance: 165 Ohm/km max.
 Mutual capacitance: 43 nF/km nom.
 Rel. propagation velocity: 79 %

Typical values

Frequency (MHz)	10	16	62,5	100	200	300	450
Attenuation (dB/100m)	5,4	7,0	13,8	17,6	26,0	34,0	38,5
Next (db)	100,0	100,0	95,8	94,5	91,0	87,0	84,3
ACR (db)	94,6	93,0	82,0	76,9	65,0	53,0	45,8

Technical data

Weight: app. 50 kg/km
 bending radius, repeated: 59 mm
 Operating temperature range min.: -20°C
 Operating temperature range max.: +60°C
 Caloric load, approx. value: 0,57 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 6, 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®450 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.

82501, F/FTP 4x2xAWG 24/1 FRNC (S-STP)

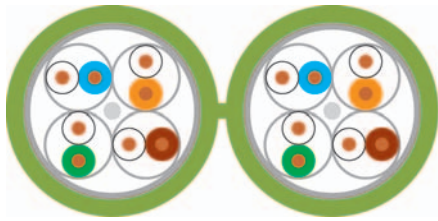
Dimensions and specifications may be changed without prior notice.

LAN Cable

Category 6

HELUKAT® 450

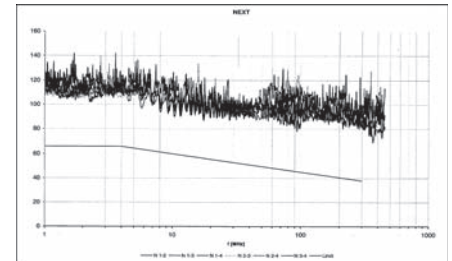
F/FTP duplex



Cable structure

Inner conductor Ø:	0,52 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	wh/bu, wh/og, wh/gn, wh/bn
Shielding 1:	-
Screen over stranding element:	Polyester foil, aluminium-lined
Screen 1 over stranding:	Polyester foil, aluminium-lined
Screen 2 over stranding:	-
Drain wire:	yes
Outer sheath material:	FRNC
Cable dimensions:	app. 7,4 mm x 15,0 mm
Outer sheath colour:	Green similar to RAL 6018

F/FTP 2x(4x2xAWG 24/1) FRNC



Electrical data

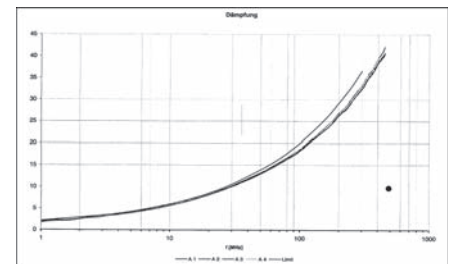
Characteristic impedance:	100 Ohm ± 15 ohm at 1 to 100 MHz 100 Ohm ± 20 ohm at 101 to 450 MHz
Loop resistance:	165 Ohm/km max.
Mutual capacitance:	43 nF/km nom.
Rel. propagation velocity:	79 %

Typical values

Frequency (MHz)	10	16	62,5	100	200	300	450
Attenuation (dB/100m)	5,4	7,0	13,8	17,6	26,0	34,0	38,5
Next (db)	100,0	100,0	95,8	94,5	91,0	87,0	84,3
ACR (db)	94,6	93,0	82,0	76,9	65,0	53,0	45,8

Technical data

Weight:	app. 100 kg/km
bending radius, repeated:	59 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	1,14 MJ/m
Copper weight:	48,00 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 60332-3, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

Application

HELUKAT®450 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.

82502, F/FTP 2x4x2xAWG 24/1 FRNC (S-STP)

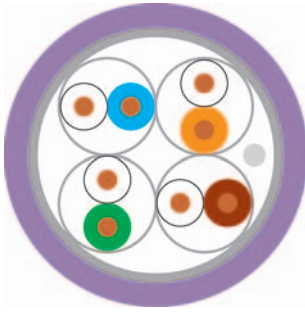
Dimensions and specifications may be changed without prior notice.

R

LAN Cable

Category 6A

HELUKAT® 500
F/FTP

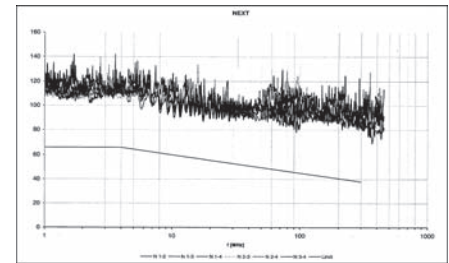


Cable structure

Inner conductor Ø: 0,57 mm
 Conductor material: Copper, bare
 Core insulation: Foam-skin-PE
 Core colours: wh/bu, wh/og, wh/gn, wh/bn
 Shielding 1: -
 Screen over stranding element: Polyester foil, aluminium-lined
 Screen 1 over stranding: Polyester foil, aluminium-lined
 Screen 2 over stranding: -
 Drain wire: yes
 Outer sheath material: LSZH
 Outer diameter: app. 7,5 mm
 Outer sheath colour: Blue Lilac similar to RAL 4005

F/FTP 4x2xAWG 23/1 LSZH

0,57 mm
 Copper, bare
 Foam-skin-PE
 wh/bu, wh/og, wh/gn, wh/bn
 -
 Polyester foil, aluminium-lined
 Polyester foil, aluminium-lined
 -
 yes
 LSZH
 app. 7,5 mm
 Blue Lilac similar to RAL 4005



Electrical data

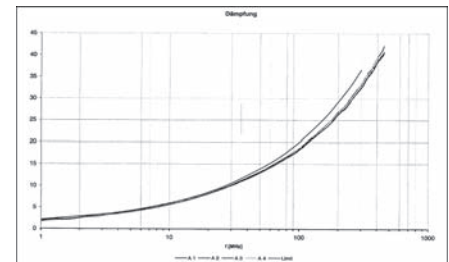
Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz
 100 Ohm ± 20 ohm at 101 to 500 MHz
 Loop resistance: 160 Ohm/km max.
 Mutual capacitance: 45 nF/km nom.
 Rel. propagation velocity: 80 %

Typical values

Frequency (MHz)	10	16	62,5	100	200	250	300	500
Attenuation (db/100m)	5,7	7,2	14,2	18,1	25,8	29,0	31,9	41,8
Next (db)	100,0	100,0	100,0	97,4	92,9	91,4	90,2	86,9
ACR (db)	94,3	92,8	85,8	79,3	67,1	62,4	58,3	45,1

Technical data

Weight: app. 50 kg/km
 bending radius, repeated: 100 mm
 Operating temperature range min.: -20°C
 Operating temperature range max.: +60°C
 Caloric load, approx. value: 0,55 MJ/m
 Copper weight: 26,00 kg/km



Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6A, 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® 500 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 10Gigabit Ethernet, 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.

803378, F/FTP 4x2xAWG 23/1 LSZH (S-STP)

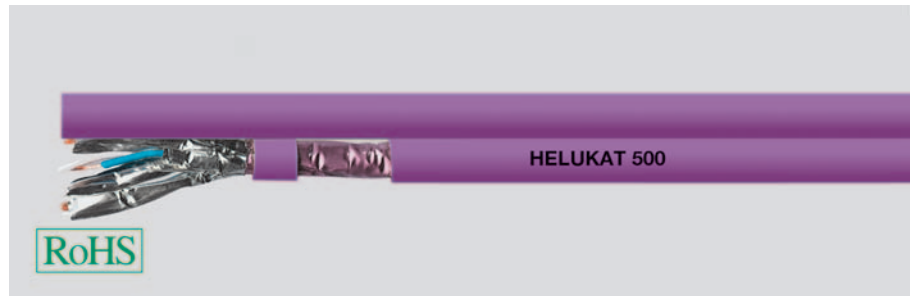
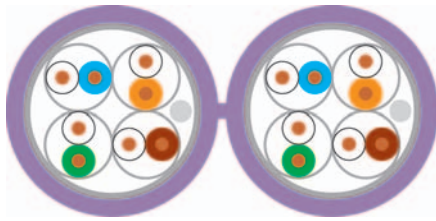
Dimensions and specifications may be changed without prior notice.

LAN Cable

Kategorie 6A

HELUKAT® 500

F/FTP duplex

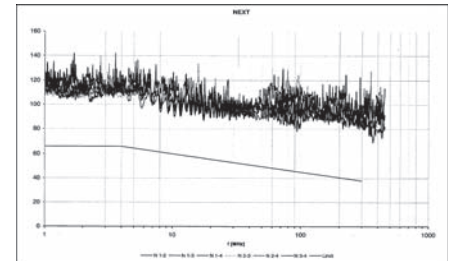


Cable structure

Inner conductor Ø: 0,57 mm
 Conductor material: Copper, bare
 Core insulation: Foam-skin-PE
 Core colours: wh/bu, wh/og, wh/gn, wh/bn
 Shielding 1: -
 Screen over stranding element: Polyester foil, aluminium-lined
 Screen 1 over stranding: Polyester foil, aluminium-lined
 Screen 2 over stranding: -
 Drain wire: yes
 Outer sheath material: LSZH
 Cable dimensions: app. 7,8 mm x 15,9 mm
 Outer sheath colour: Blue Lilac similar to RAL 4005

F/FTP 2x(4x2xAWG 23/1) LSZH (S-STP)

0,57 mm
 Copper, bare
 Foam-skin-PE
 wh/bu, wh/og, wh/gn, wh/bn
 -
 Polyester foil, aluminium-lined
 Polyester foil, aluminium-lined
 -
 yes
 LSZH
 app. 7,8 mm x 15,9 mm
 Blue Lilac similar to RAL 4005



Electrical data

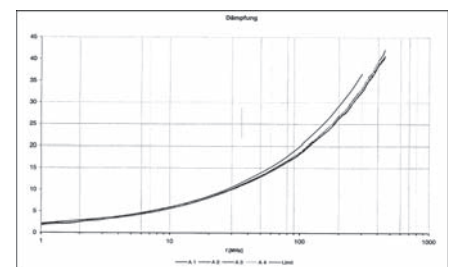
Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz
 100 Ohm ± 20 ohm at 101 to 500 MHz
 Loop resistance: 160 Ohm/km max.
 Mutual capacitance: 45 nF/km nom.
 Rel. propagation velocity: 80 %

Typical values

Frequency (MHz)	10	16	62,5	100	200	250	300	500
Attenuation (db/100m)	5,7	7,2	14,2	18,1	25,8	29,0	31,9	41,8
Next (db)	100,0	100,0	100,0	97,4	92,9	91,4	90,2	86,9
ACR (db)	94,3	92,8	85,8	79,3	67,1	62,4	58,3	45,1

Technical data

Weight: app. 100 kg/km
 bending radius, repeated: 100 mm
 Operating temperature range min.: -20°C
 Operating temperature range max.: +60°C
 Caloric load, approx. value: 1,13 MJ/m
 Copper weight: 52,00 kg/km



Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6A, 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® 500 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 10Gigabit Ethernet, 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.

803379, F/FTP 2x4x2xAWG 23/1 LSZH (S-STP)

Dimensions and specifications may be changed without prior notice.

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