

100IND, 250IND, 500IND, 600IND, 1000IND, 1200IND

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
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Калининград (4012)72-03-81
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Омск (3812)21-46-40
Орел (4862)44-53-42
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Рязань (4912)46-61-64
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Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
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Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Industrial Ethernet

FRNC + PUR

HELUKAT® 100IND

SF/UTP, Category 5e



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Shielding 1:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Fixed installation, indoor SF/UTP 2x2xAWG24/ 1 FRNC

Copper, bare (AWG 24/1)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
Polyester foil over stranded bundle
-
AL-Foil + braid
FRNC
app. 5,6 mm ± 0,2 mm
blau similar to RAL 5021

Fixed installation, indoor SF/UTP 2x2xAWG24/ 1 PUR

Copper, bare (AWG 24/1)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
Polyester foil over stranded bundle
-
AL-Foil + braid
PUR
app. 5,6 mm ± 0,2 mm
blau similar to RAL 5021

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Nominal voltage:
Test voltage:
Relative propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
96 Ohm/km
5 GOhm x km
192 Ohm/km max.
48 nF/km nom.
300 V
1 kV
70 %

100 Ohm ± 15 Ohm at 1 to 100 MHz
96 Ohm/km
5 GOhm x km
192 Ohm/km max.
48 nF/km nom.
300 V
1 kV
-

Typical values

frequency (MHz)	10	16	62,5	100
attenuation (dB/100m)	6,3	8,1	16,5	21,4
next (db)	50,3	47,4	38,4	35,3

Technical data

Weight: app. 45 kg/km
bending radius, repeated: 84 mm
Operating temperature range min.: -25°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,43 MJ/m
Copper weight: 22,00 kg/km

app. 53 kg/km
84 mm
-30°C
+80°C
-
22,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Category 5, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1

Application

HELUKAT® 100IND Category 5e FRNC for fixed installation indoor in halogen free and flame retardant edition.
The PUR version is excellent oil resistant, halogen free and abrasion resistant.

Part no.

805699, INDUSTRIAL ETHERNET CAT.5e

805700, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

FLEX FRNC + PUR

HELUKAT® 100IND

SF/UTP, Category 5e



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Shielding 1:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Mobile use SF/UTP 2x2xAWG26/7 (stranded) FRNC

Copper, bare (AWG 26/7)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
-
-
AL-Foil + braid
FRNC
app. 5,6 mm ± 0,2 mm
blau similar to RAL 5021

Mobile use SF/UTP 2x2xAWG26/7 (stranded) PUR

Copper, bare (AWG 26/7)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
-
-
AL-Foil + braid
PUR
app. 5,7 mm ± 0,2 mm
blau similar to RAL 5021

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Nominal voltage:
Test voltage:
Relative propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
142 Ohm/km
5 GOhm x km
284 Ohm/km max.
47 nF/km nom.
125 V
0,75 kV
75 %

100 Ohm ± 15 Ohm at 1 to 100 MHz
140 Ohm/km
5 GOhm x km
280 Ohm/km max.
50 nF/km nom.
300 V
1 kV
67 %

Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (db/100m)	9,5	12,1	24,8	32,0
Next (db)	50,3	47,2	38,4	35,3

Technical data

Weight: app. 44 kg/km
bending radius, repeated: 87 mm
Operating temperature range min.: -10°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 0,44 MJ/m
Copper weight: 19,00 kg/km

app. 45 kg/km
89 mm
-30°C
+70°C
0,64 MJ/m
19,00 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 60332-1-2, Halogen-free acc. to 60754-1

Application

HELUKAT® 100IND Category 5e FRNC flex is designed for flexible use. Thanks to the FRNC sheath, it also offers halogen free and flame retardent parameters.

The PUR version is excellent oil resistant, halogen free and abrasion resistant and is UL recognized with AWM style 21576 for 1000V/80°C and can be used in drag chain with low performance.

Part no.

805701, INDUSTRIAL ETHERNET CAT.5e

805702, INDUSTRIAL ETHERNET CAT.5e

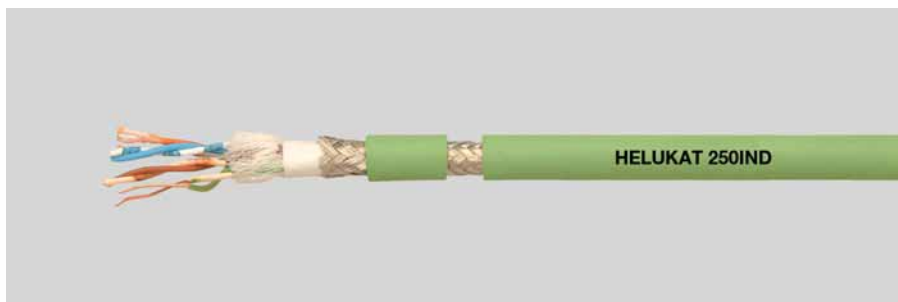
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

PVC AWM

HELUKAT® 250IND

SF / UTP, Category 6



Cable structure

Inner conductor Ø:
Conductor material:
Core insulation:
Core colours:
Separator:
Inner sheath material:
Screen over stranding element:
Total shielding:
Outer sheath material:
Outer diameter:
Outer sheath colour:

SF/UTP 4x2xAWG 24/ 1 PVC

0,52 mm
Copper, bare
PE
wh/bu, wh/og, wh/gn, wh/bn
-
FRNC
-
AL-Foil + braid
PVC
app. 8,0 mm
Green similar to RAL 6018

Electrical data

Characteristic impedance:

100 Ohm ± 15 Ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm bei 101 bis 250 MHz

Insulation resistance, min.:

0,5 GOhm x km

Mutual capacitance:

72 nF/km nom.

Test voltage:

0,7 kV

Rel. propagation velocity:

62 %

Typical values

Frequency	(MHz)	10	16	62,5	100	250
Attenuation	(db/100m)	5,9	7,5	15,0	19,1	31,1
Next	(dB)	60,3	57,2	48,4	45,3	39,3
PSNext	(dB)	57,3	54,2	45,4	42,3	36,3

Technical data

Weight: app. 78 kg/km
bending radius, repeated: 40 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 1,69 MJ/m
Copper weight: 40,00 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, UL Style 2571

Application

HELUKAT® 250IND was designed specially for extreme industrial applications. The copper data cable is especially well-suited for Category 6 Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions. This version with PVC jacket is designed specifically for fixed installation under difficult industrial conditions.

Part no.

805681, INDUSTRIAL ETHERNET CAT.6

Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

PVC CMG

HELUKAT® 250IND

SF / UTP, Category 6



Cable structure

Inner conductor Ø:
Conductor material:
Core insulation:
Core colours:
Separator:
Inner sheath material:
Screen over stranding element:
Total shielding:
Outer sheath material:
Outer diameter:
Outer sheath colour:

SF/UTP 4x2xAWG 24/ 1 PVC

0,51 mm
Copper, bare
PE
wh/bu, wh/og, wh/gn, wh/bn
Polyester foil over stranded bundle
FRNC
-
AL-Foil + braid
PVC
app. 8,0 mm
Green similar to RAL 6018

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Test voltage:
Rel. propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm bei 101 bis 250 MHz
95 Ohm/km
0,5 GOhm x km
190 Ohm/km max.
72 nF/km nom.
0,7 kV
62 %

Typical values

Frequency	(MHz)	10	16	62,5	100	250
attenuation	(db/100m)	6,3	7,9	16,0	20,7	35,0
Next	(dB)	59,3	56,2	47,4	44,3	38,3
PSNext	(dB)	57,3	54,2	45,4	42,3	36,3

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 76 kg/km
40 mm
-40°C
+80°C
1,69 MJ/m
37,00 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, CMG FT4

Application

HELUKAT® 250IND was designed specially for extreme industrial applications. The copper data cable is especially well-suited for Ethernet applications Category 6. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

805655, INDUSTRIAL ETHERNET CAT.6

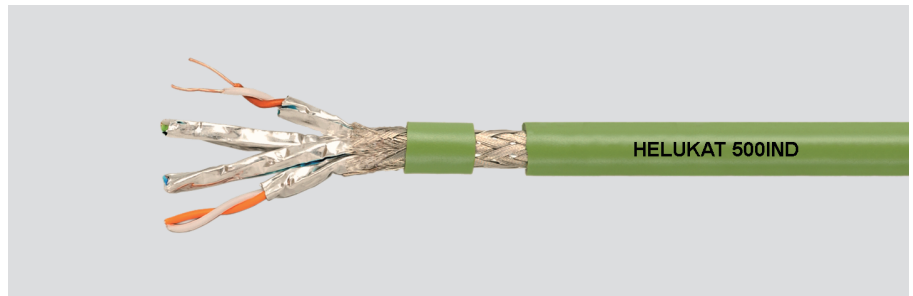
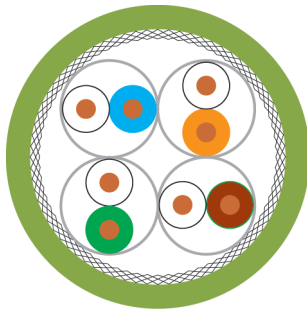
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Cable structure

Inner conductor Ø:	0,64 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Separator:	-
Inner sheath material:	-
Screen over stranding element:	Al-Foil
Total shielding:	Cu braid, tinned
Drain wire:	yes
Outer sheath material:	PVC
Outer diameter:	app. 8,7 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 500 MHz
Conductor resistance, max.:	59 Ohm/km
Insulation resistance, min.:	5 GOhm x km
Loop resistance:	118 Ohm/km max.
Mutual capacitance:	45 nF/km nom.
Test voltage:	2 kV

Typical values

Frequency (MHz)	10	16	62,5	100	250	500
Attenuation (db/100m)	5,9	7,5	15,0	19,1	31,1	45,3
Next (dB)	60,3	57,2	48,4	45,3	39,3	34,8
PSNext (dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight:	app. 96 kg/km
bending radius, repeated:	70 mm
Operating temperature range min.:	-30°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	1,63 MJ/m
Copper weight:	53,00 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, CMG 75°C FT4 or CL2 or AWM 21694 600V SUN RES

Application

HELUKAT® 500IND was designed specially for extreme industrial applications for fixed installation. The copper data cable is especially well-suited for **Category 6A 10 Gigabit/500MHz (IEC 61156-5)** Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

11007776, INDUSTRIAL ETHERNET KAT.6A 10GIG PVC

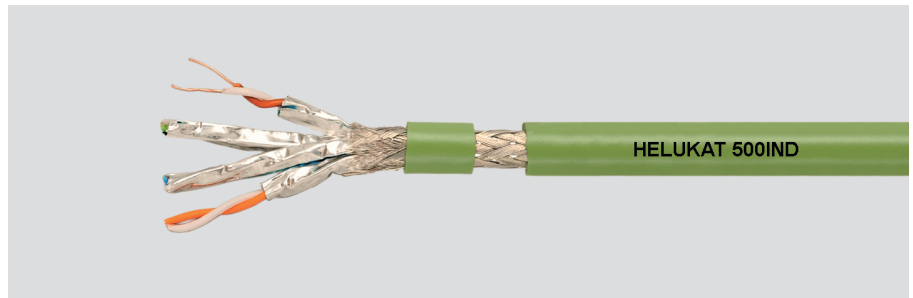
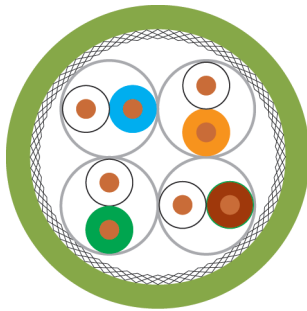
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Cable structure

Inner conductor Ø:	0,64 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Separator:	-
Inner sheath material:	-
Screen over stranding element:	Al-Foil
Total shielding:	Cu braid, tinned
Drain wire:	yes
Outer sheath material:	FRNC
Outer diameter:	app. 8,7 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 500 MHz
Conductor resistance, max.:	59 Ohm/km
Insulation resistance, min.:	5 GOhm x km
Loop resistance:	118 Ohm/km max.
Mutual capacitance:	45 nF/km nom.
Test voltage:	2 kV

Typical values

Frequency (MHz)	10	16	62,5	100	250	500
Attenuation (db/100m)	5,9	7,5	15,0	19,1	31,1	45,3
Next (dB)	60,3	57,2	48,4	45,3	39,3	34,8
PSNext (dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight:	app. 103 kg/km
bending radius, repeated:	70 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	1,63 MJ/m
Copper weight:	53,00 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, Halogen-free acc. to 60754-1, Corrosiveness acc. to EN50267-2-3, CM 75°C (shielded)

Application

HELUKAT® 500IND was designed specially for extreme industrial applications for fixed installation. The copper data cable is especially well-suited for **Category 6A 10 Gigabit/500MHz (IEC 61156-5)** Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

1100777, INDUSTRIAL ETHERNET CAT.6A 10GIG

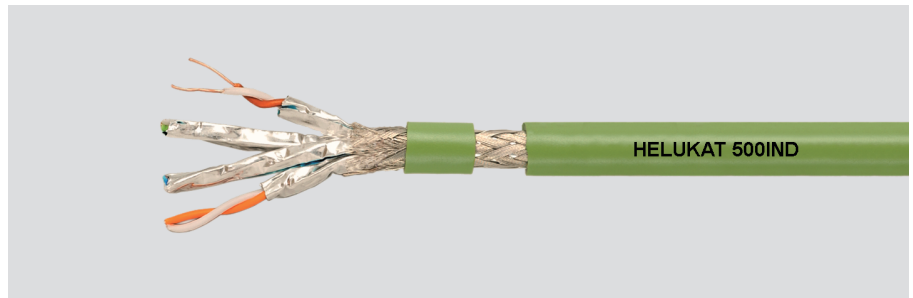
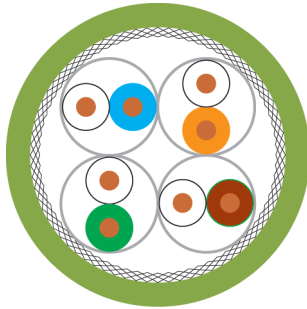
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Cable structure

Inner conductor Ø:	0,64 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Separator:	-
Inner sheath material:	-
Screen over stranding element:	Al-Foil
Total shielding:	Cu braid, tinned
Drain wire:	yes
Outer sheath material:	PUR
Outer diameter:	app. 8,7 mm
Outer sheath colour:	Green similar to RAL 6018

S/FTP 4x2xAWG 22/ 1 PUR

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 500 MHz
Conductor resistance, max.:	59 Ohm/km
Insulation resistance, min.:	5 GOhm x km
Loop resistance:	118 Ohm/km max.
Mutual capacitance:	45 nF/km nom.
Test voltage:	2 kV

Typical values

Frequency (MHz)	10	16	62,5	100	250	500
Attenuation (db/100m)	5,9	7,5	15,0	19,1	31,1	45,3
Next (dB)	60,3	57,2	48,4	45,3	39,3	34,8
PSNext (dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight:	app. 103 kg/km
bending radius, repeated:	70 mm
Operating temperature range min.:	-40°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	1,63 MJ/m
Copper weight:	53,00 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 60332-1-2, Halogen-free acc. to 60754-1, Corrosiveness acc. to EN50267-2-3, CMX 444

Application

HELUKAT® 500IND was designed specially for extreme industrial applications for fixed installation. The copper data cable is especially well-suited for **Category 6A 10 Gigabit/500MHz (IEC 61156-5)** Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

11007778, INDUSTRIAL ETHERNET CAT.6A 10GIG

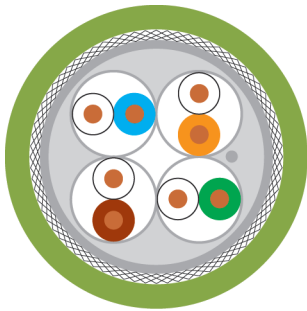
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Inner sheath material:
Shielding 1:
Total shielding:
Drain wire:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Industrial Area

S/FTP 4x2xAWG 22/1

Copper, bare (AWG 22/1)
Foam-skin-PE
wh/bu, wh/og, wh/gn, wh/bn
Double core
-
FRNC
Al-Foil
AL-Foil + braid
yes
PVC
app. 9,6 mm ± 0,3 mm
Green similar to RAL 6018

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Test voltage:
Relative propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm at 101 to 500 MHz
59 Ohm/km
0,5 GOhm x km
118 Ohm/km max.
72 nF/km nom.
0,7 kV
62 %

Typical values

Frequency (MHz)	10	16	62,5	100	250	500
Attenuation (db/100m)	5,9	7,5	15,0	19,1	31,1	45,3
Next (dB)	60,3	57,2	48,4	45,3	39,3	34,8
PSNext (dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight: app. 115 kg/km
bending radius, repeated: 80 mm
Operating temperature range min.: -20°C
Operating temperature range max.: +60°C
Caloric load, approx. value: 1,63 MJ/m
Copper weight: 44,00 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, CMG FT4 for USA and Canada, CSA FT 4

Application

HELUKAT® 500IND was designed specially for extreme industrial applications for fixed installation. The copper data cable is especially well-suited for **Category 6A, 10 Gigabit/500MHz (IEC 61156-5)** Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

803693, INDUSTRIAL ETHERNET KAT.6A 10GIG PVC

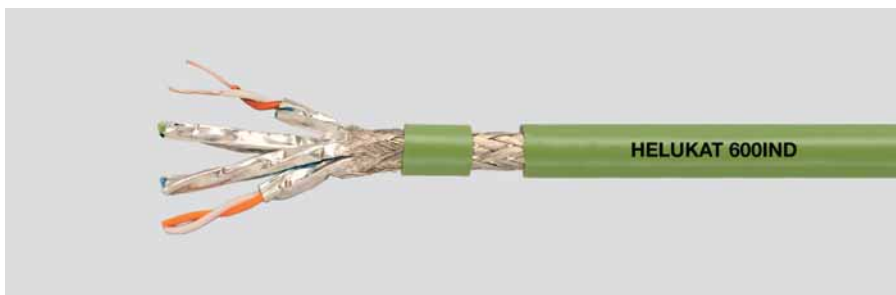
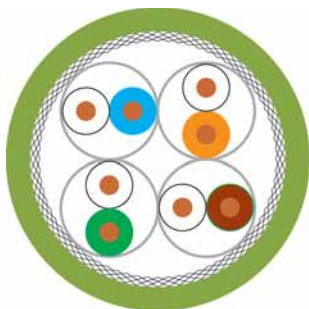
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

FRNC

HELUKAT® 600IND

S/FTP, Category 7e



Cable structure

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

S/FTP 4x2xAWG 23/1 FRNC

0,57 mm
Copper, bare
Foam-skin-PE
wh/bu, wh/og, wh/gn, wh/bn
-
Al-Foil
Cu braid
-
FRNC
app. 7,8 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 1200 MHz

Loop resistance:

149 Ohm/km max.

Mutual capacitance:

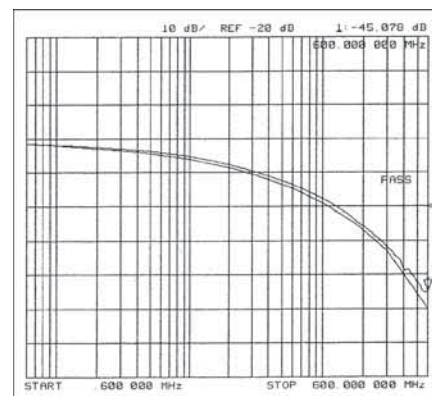
43 nF/km nom.

Rel. propagation velocity:

77 %

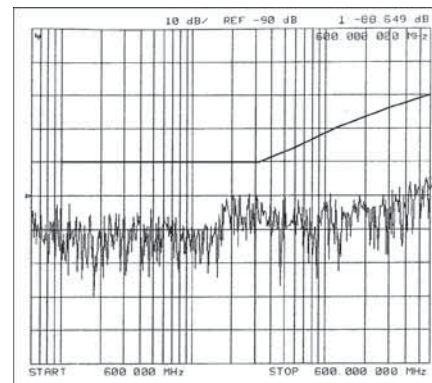
Typical values

frequency (MHz)	10	16	62,5	100	250	350	600	900	1000	1200
attenuation (db/100m)	5,6	7,0	13,8	17,6	28,3	34,0	45,2	57,1	60,8	66,0
next (db)	95,0	95,0	89,0	87,0	82,0	79,0	74,0	70,0	66,0	63,0
ACR (db)	89,4	88,0	75,2	69,4	53,7	43,0	27,8	13,9	5,2	-3,0



Technical data

Weight: app. 68 kg/km
bending radius, repeated: 78 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,74 MJ/m
Copper weight: 34,00 kg/km



Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7e, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-2, Oil-resistant, UL AWM 21143 600V 80°C

Application

HELUKAT® 600IND Category 7e FRNC is used for industrial environments with halogen free and low smoke characteristics. Electrically, this cable is characterized by high reserve capacity and outstanding performance. This allows you to create services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, Token Ring 4/16 Mbit/s or ISDN without difficulty. These cables considerably exceed the requirement for compliance with Class B interference emission to EN55022, as well as interference immunity to EN55024. This gives the series outstanding EMC characteristics.

Part no.

11007775, S/FTP 4x2xAWG 23/1 FRNC (S-STP)

Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

ROBUSTFLEX

HELUKAT® 1000IND

S/FTP, Category 7_A



Cable structure

Inner conductor Ø:	0,48 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	wh/bu, wh/og, wh/gn, wh/bn
Separator:	-
Screen over stranding element:	Al-Foil
Screen 1 over stranding:	Cu braid
Screen 2 over stranding:	-
Outer sheath material:	PUR
Outer diameter:	app. 6,2 mm
Outer sheath colour:	Green similar to RAL 6018

S/FTP 4x2xAWG 26/7 PUR

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 1000 MHz
Loop resistance:	290 Ohm/km max.
Mutual capacitance:	44 nF/km nom.
Rel. propagation velocity:	64 %

Typical values

Frequency (MHz)	10	100	250	800	900	1000
Attenuation (db/10m)	0,9	2,8	4,5	8,2	8,8	9,3
Next (db)	78,0	78,0	72,4	64,9	64,1	63,4
ACR (db)	77,1	75,2	67,9	56,7	55,3	54,1

Technical data

Weight:	app. 40 kg/km
bending radius, repeated:	50 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	0,45 MJ/m
Copper weight:	23,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7_A, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, Oil-resistant, AWM Style 21238 (80°C/ 600V)

Application

HELUKAT®1000IND Category 7_A Robustflex is an Ethernet cable that, thanks to use of a halogen-free PU outer sheath, is ideal for harsh industrial surroundings. This cable is configurable with common RJ45 plugs (industrial and office version), as well as with some Sub-D and M12 plugs.

Part no.

805684, S/FTP 4x2xAWG 26/7 PUR (S-STP)

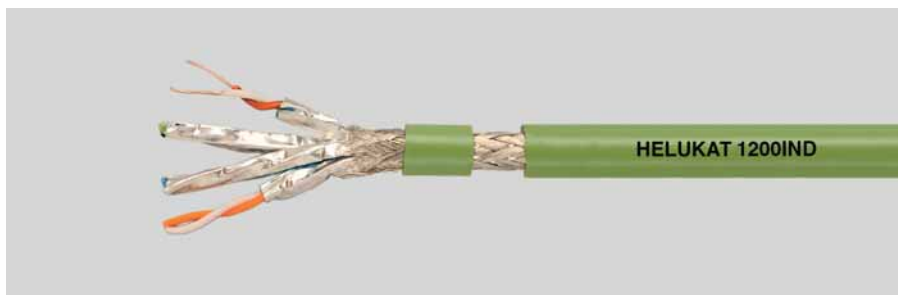
Dimensions and specifications may be changed without prior notice.

Industrial Ethernet

ROBUST

HELUKAT® 1200IND

S/FTP, Category 7A



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
Separator:	-
Screen over stranding element:	Al-Foil
Screen 1 over stranding:	Cu braid
Screen 2 over stranding:	-
Outer sheath material:	PUR
Outer diameter:	app. 7,8 mm
Outer sheath colour:	Green similar to RAL 6018

S/FTP 4x2xAWG 23/1 PUR

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 1200 MHz
Loop resistance:	149 Ohm/km max.
Mutual capacitance:	43 nF/km nom.

Typical values

frequency (MHz)	10	16	62,5	100	250	350	600	900	1200
attenuation (db/100m)	5,6	7,0	13,8	17,6	28,3	34,0	45,2	57,1	66
Next (db)	95,0	95,0	89,0	87,0	82,0	89,0	74,0	70,0	63,0
PS-ACR (db)	89,4	86,0	73,2	67,4	51,7	43,0	27,8	13,9	1,0

Technical data

Weight:	app. 68 kg/km
bending radius, repeated:	78 mm
Operating temperature range min.:	-40°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	0,76 MJ/m
Copper weight:	37,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7A, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-2, Oil-resistant, UL Style 20549

Application

HELUKAT® 1200IND Category 7A Robust is used for harsh industrial environments. Mechanically, this product exhibits excellent resistance to mineral oils, greases and cooling lubricants and has good microbe and hydrolysis resistance. Electrically, this cable is characterized by high reserve capacity and outstanding performance.

Part no.

805680, S/FTP 4x2xAWG 23/1 PUR (S-STP)

Dimensions and specifications may be changed without prior notice.

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