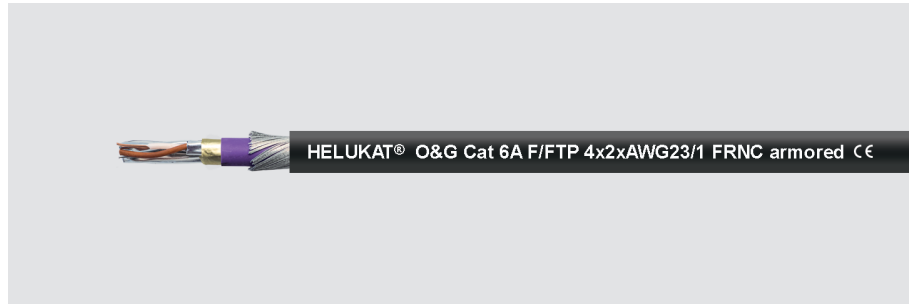
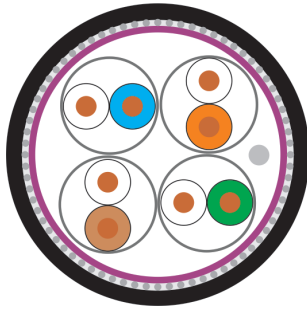


# LAN Cable direct burial / armoured

HELUKAT® O&G Cat.6A F/FTP 4x2xAWG23/1 FRNC/FRNC

**HELUKAT®** ® O&G  
S/FTP FRNC/FRNC

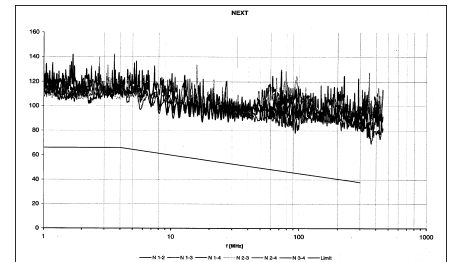


## Cable structure

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

## F/FTP 4x2xAWG 23/1 FRNC/FRNC

0,57 mm  
Copper, bare  
Foam-skin-PE  
wh/bu, wh/og, wh/gn, wh/bn  
-  
FRNC  
Al-Foil  
Cu braid  
-  
steel wire  
FRNC  
app. 10,6 mm  
Black



## Electrical data

Characteristic impedance:

100 Ohm  $\pm$  15 Ohm at 1 to 100 MHz  
100 Ohm  $\pm$  20 Ohm at 101 to 1000 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. 155 kg/km  
bending radius, repeated: 106 mm  
Operating temperature range min.: -20°C  
Operating temperature range max.: +60°C  
Caloric load, approx. value: 0,84 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, Oil-resistant

## Application

HELUKAT® O&G data cables are used in the tertiary, but also in the secondary level of a network within Oil & Gas fields. 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. The series of HELUKAT® O&G with a FRNC/FRNC double jacket and the rodent protection is constructed especially for outdoor and direct burial applications. And they are also flame retardant.

## Part no.

**11018072**, F/FTP 4x2xAWG 23/1 FRNC/FRNC

Dimensions and specifications may be changed without prior notice.

