

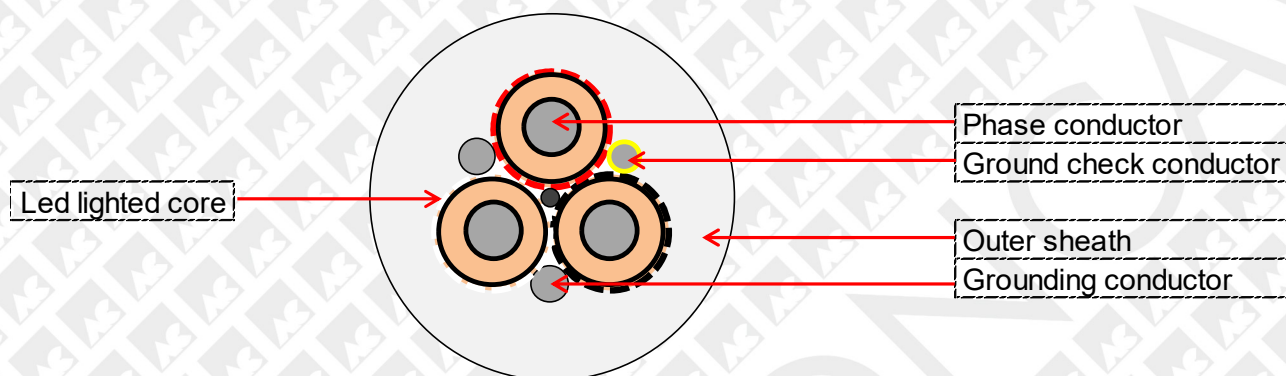


## TECHNICAL DATA SHEET

URSUS® MIN GC eFEHT PUR 6/10 kV

Date: 17/11/2021  
N° 15181 - rev.00  
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***Cable for mining application with improved night visibility,  
thanks to a new patent eFEHT system that offers advantages new in this field!***



### DESCRIPTION OF ADVANTAGES

#### LIGHT ALL TIME:

as the eFEHT tape harvests energy related with electric field (related to voltage), the cable has flashing lights all time the cable is connected (with a previous technology, EHT led, was needed that the machinery powered by the cable was in operation to have the light, flow of current; in this new eFEHT system the simply connection to the cable to the power line allows to have the light).

#### PLUG AND PLAY CONCEPT:

as the tape harvests energy from the cable, it does not need an external power source. Just plug it on and it will glow!

#### UNCHANGED DIMENSION:

The tape is so thin that the technology inside does not increase the external diameter of the cable (matter that do not happens with previous technology).

This implies same flexibility and weight per meter of the cable with equivalent cable of same voltage and cross-section.

#### SAFETY:

cables with eFEHT inside indicate cable presence and voltage presence all time the cable is plugged on (while the previous EHT does not allow to know if the cable is or not under tension but only if what it is conncted is operating or not), a step forward in safety



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#### CONSTRUCTION

- Phase conductors: Tinned flexible copper, Class 5, acc. to VDE 0295, IEC 60228
- Inner semiconductive rubber layer over the semiconductive tape
- Phase conductors insulation: EPR rubber compound, 3GI3 quality acc. to VDE 0207 part 20
- Outer semiconductive rubber layer
- Phase conductors screen: tinned copper wire braid + textile fiber colour: Red – White(\*) - Black  
(\*) : the White textile fiber is substituted with the WHITE efeHT LED element.
- Grounding conductors: Tinned flexible copper, Class 5, acc. to VDE 0295, IEC 60228
- Ground check conductor: Tinned flexible copper, stranded construction with central filler KEVLAR<sup>®</sup> support, insulated with thermoset heavy duty special compound (Yellow)
- Outer sheath: Halogen Free Flame Retardant, polyurethane TPU
- Colour: transparent (on request available also slightly coloured red or yellow or green)

#### WORKING DATA

Nominal rated voltage $U_0/U$	6/10 kV
Test voltage	17 kV
Maximum short circuit temperature	+ 250 °C
Maximum working temperature on the conductor	+ 90 °C
Minimum ambient temperature	- 40° C
Minimum bending radius	Freely flexing acc. to VDE 0298 part 3
Oil resistance	Acc. to IEC 60811-404
Ozone resistance	Acc. to IEC 60811-403
Burning behaviour	Flame retardant acc. to IEC 60332-1-2 Halogen free acc. to IEC 60754-1 and IEC 60754-2



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### DIMENSIONS

PHASE CONDUCTORS (N°×mm <sup>2</sup> )	NOMINAL OUTER DIAMETER (mm)	MAX OUTER DIAMETER (mm)	APPROX. WEIGHT (kg/km)
3×120+2×50+1×16	64,0	67,5	7400