

Have sun!

10 years  
product-  
warranty<sup>1</sup>



[Product datasheet](#)

# IBC FlexiSun 2.5 | 16 mm<sup>2</sup> H1Z2Z2-K

Flexibility in their laying  
and durability in combination.

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### Environmental impacts

Highest yields thanks to resistance to ammonia, UV light, ozone and water.

### Versatile applications

Suitable for use indoors, outdoors, in areas where there is a potential for explosions, in industrial, commercial and agricultural operations, as well as in installation applications on water and for direct burial in ground – in accordance with the corresponding guidelines.

### Maximum tested

Tested for a minimum service life of more than 25 years and complies with the latest VDE and TÜV standards. Better result than required by the standard for flame propagation in cable harnesses and smoke emission.

### You also benefit from:

- a 10-year product warranty
- a 30-year expected service life
- high robustness
- direct burial
- the water resistance AD8
- 100% proved quality
- a German guarantor



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Electrical parameters		Resistance to external influences	
Nominal voltage	AC: 1.0/1.0 kV DC: 1.5/1.5 kV	Resistance to petroleum	24 h, 100 °C (int. test according to VDE 0473-811-404, EN 60811-404)
Max. PV system voltage DC	1.5 kV	Ozone resistance	Test according to DIN EN50396, HD 22.2 test type B
Max. permitted operating voltage AC	1.2/1.2 kV	UV resistance	According to EN 50289-4-17, meth. A
Max. permitted operating voltage DC	1.8/1.8 kV	Acid and base resistance	According to EN 50618, part B: 7 days, 23°C (N oxalic acid, N sodium hydroxide solution) to EN 60811-404
Test voltage AC/DC	6.5 kV/15 kV (test duration 5 min)	Ammonia resistance	30 days saturated ammonia atmosphere (int. test)
Current carrying capacity	According to EN 50618, table A-3	Water absorption (gravimetric)	Int. test according to DIN EN 60811-402
<b>Thermal parameter</b>		Water resistance	AD8 acc. to DIN EN 50525-2-21 and UL44
Ambient temperature	During installation and handling: -25°C to 60°C; in use: -40°C to 90°C	<b>Reaction to fire</b>	
Short circuit temperature	+250°C (max. 5 sec on conductor)	Flame spread, individual cable	DIN EN 60332-1-2 and EN 50618, table 2
Low-temperature resistance	According to EN 50618, table 2	Flame spread, bundle of cables	Int. test according to DIN EN 50305-9 and DIN VDE 0482 part 332-3-25
Damp/heat test	According to EN 50618, table 2	Smoke emission, light transmission >70 %	Int. test according to IEC 61034 and DIN VDE 0482 part 268-2
<b>Mechanical parameters</b>		Ecological safety measures	RoHS conformity according to guideline 2011/65/EU
Tensile load	15 N/mm <sup>2</sup> in use, 50 N/mm <sup>2</sup> during installation according to HD 516, DIN VDE 0298 paragraph 3 §7.1 and paragraph 300 §5.4.1	Construction Products Regulation CPR	CPR acc. to DIN EN 50575 – fire classification euroclass Eca
Bending radius	According to EN 50565-1	<b>Design criteria</b>	
Abrasion	Emery paper (int. test according to DIN ISO 4649), sheath to sheath (int. test), sheath to metal (int. test), sheath to plastic (int. test)	Conductor	Electrolytic copper, fine-wired, class 5 according to IEC 60228 (DIN VDE 0295)
Shore hardness	85 (int. test according to DIN EN ISO 868)	Insulation	Cross-linked HEPR 120°C
Rodent resistant (martens)	For absolute safety, use protective hoses or cables with metallic sheathing such as web covering or braided sleeving (optional available)	Sheath	Cross-linked ethylene vinyl acetate-based elastomer 120°C
		Labeling	IBC FlexiSun® (cross section) H1Z2Z2-K according to: DIN EN 50618
<b>Technical data</b>			
Nominal cross section (mm <sup>2</sup> )	2.5	16	
Conductor diameter (mm)	1.9	5.6	
Outer diameter (minimum) (mm)	4.8	9	
Outer diameter (maximum) (mm)	5.4	9.8	
Net cable weight, approximate (kg/km)	50	200	
Min. bending radius (mm)	17	30	
Max. current load at 60°C (A)	41	132	
Permitted short circuit current (1 sec) (kA)	0.36	2.29	
Item number 500 meter reel black	7000200023	7000200029	
Item number 100 meter flange black	7000200039	7000200045	
Item number 500 meter reel red	-	-	
Item number 100 meter flange red	-	-	
Item number 1,000 meter reel black	-	-	

1) The warranty presupposes installation in accordance with the valid instructions. The precise conditions and content can be taken from the respectively valid version of the product warranty, which you obtain from your IBC Premium Partner.

Subject to modifications that represent progress.

Your  
Premium Partner