# CABLES / KÁBLE

## 5. INDUSTRIAL CABLES / 5.1 HALOGEN-FREE / Fotoflex



Cables for photovoltaic plants

VUKI a.s. \* Fotoflex 1x4mm<sup>2</sup> \* 1234 m



## **Application:**

Power cables of nominal voltage of 0,6/1 kV AC, resp. 0,9/1,5 kV DC dedicated to photovoltaic systems. Fotoflex cables are resistant against UV radiation, ozone and thermal environment effects. Insulation and sheating materials resist to hydrolysis, ammonia and biogas, were tested in according to TÜV 2 PfG 1169 and UL 4703. They can be used in environment in according to STN 33 2000-3 in category AN1 and 2 (UV stability). Cables meet the requirement of flame spread resistance according to STN EN 61034-2 and with low fume density during the fire and low corrosivity of fire products. It is possible to use these cables in fire hazard conditions and to install them on flammable material.

data:
al voltage Uo/U (kV): 0,6/1,5 AC; 0,9/1,5 DC ion temperature (fixed placing): -50 to +90 °C (120 °C 3 000 h) ending radius: 6 x cable diameter
al v ior

Aplication table:					
	Туре	Effective resistance of conductor	Outer diameter (appr.)		
	1780	Ω/km	mm		
	1x1,5 mm <sup>2</sup>	13,7	4,5		
	1x2,5 mm <sup>2</sup>	8,21	4,7		
	lx4 mm <sup>2</sup>	5,09	5,3		
	1 x6mm <sup>2</sup>	3,39	6,0		
	1x10 mm <sup>2</sup>	1,95	7,0		
	1x16 mm <sup>2</sup>	1,24	8,5		
	1x25 mm <sup>2</sup>	0,795	10,0		



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The information supplied on this data sheet complies with our current level of knowledge by the date of publication. These information can be revised if there are any new knowledge and experiences available. Stated data are valid only for VUKI products. Any data changes in this documentation are restricted. Values in this documentation consider as informative data.

# CABLES / KÁBLE

## 5. INDUSTRIAL CABLES / 5.1 HALOGEN-FREE / Fotoflex Z



Cables for photovoltaic plants

### **Application:**

Power cables of nominal voltage of 0,6/1 kV AC, resp. 0,9/1,5 kV DC dedicated to photovoltaic systems. Fotoflex cables are resistant against UV radiation, ozone and thermal environment effects. Insulation and covering materials resist to hydrolysis, ammonia and biogas, were tested in according to TÜV 2 PfG 1169 and UL 4703. They can be used in environment in according to STN 33 2000-3 in category AN1 and 2 (UV stability). Cables meet the requirement of flame spread resistance according to STN EN 61034-2 and with low fume density during the fire and low corrosivity of fire products. It is possible to use these cables in fire hazard conditions and to install them on flammable material. Special cable construction for FVE usage with maximized UV stability, ozone resistance, thermal and mechanical strain, flame retardant, with very high humidity resistance, intended for long-term water effects.

## **Cable construction:**

### **Technical data:**

- Cable cores: Stranded CuSn (Cu) cores with nominal cross-section from 1,5 mm<sup>2</sup> to 10 mm<sup>2</sup> Nominal voltage Uo/U (kV): 0,6/1,5 AC; 0,9/1,5 DC
- Insulation: Halogen-free, branched, heat resistant, flexible mixture with reduced flammability.
  Operation temperature (fixed placing): -50 to +90 °C (120 °C 3 000 h) Halogen-free barrier against humidity.
- - Min. bending radius: 6 x cable diameter
- Sheath: Halogen-free, heat resistant, flexible mixture with reduced flammability examined acc.to TÜV 2 PfG 1169 a UL 4703, colour (generally) red, blue or black.

## Aplication tab

Туре	Effective resistance of conductor	Outer diameter (appr.)			
	Ω/km	mm			
1x1,5 mm <sup>2</sup>	13,7	5,2			
1x2,5 mm <sup>2</sup>	8,21	5,6			
1x4 mm <sup>2</sup>	5,09	6,2			
1 x6mm <sup>2</sup>	3,39	7,0			
1x10 mm <sup>2</sup>	1,95	8,0			



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