

# Aircraft Ground Power Supply Cable



Type: **SXI 7X50+24X1**

Article:

<b>50 mm<sup>2</sup>, extra flexible, Conductor acc. to IEC 228,6</b>			
<b>Properties</b>	<b>Nominal value</b>	<b>Tolerance</b>	<b>Unit</b>
Wires in conductor, bare	1500	-	Pcs.
Wire diameter	0,20	± 0,02	mm
Resistance	0,386	+0,006	Ω/Km
Lay length	Rope lay	-	mm
Copper weight	446	-	Kg/km
<b>1 mm<sup>2</sup>, flexible, Conductor acc. to IEC 228,5</b>			
<b>Properties</b>	<b>Nominal value</b>	<b>Tolerance</b>	<b>Unit</b>
Wires in conductor, bare	32	-	Pcs.
Wire diameter	0,19	± 0,02	mm
Resistance	19,0	+0,5	Ω/Km
Lay length	45	-	mm
Copper weight	8,3	-	Kg/km

<b>Insulation of 7 x 50mm<sup>2</sup> acc. to HD 603</b>			
<b>Properties</b>	<b>Nominal value</b>	<b>Tolerance</b>	<b>Unit</b>
Material	XLPE 90°C	-	-
Temperature range	-45 till +90		°C
Wall thickness	1,2	+ 0,2	mm
Outer diameter	11,8	+ 0,4	mm
Colour	Lightblue, 2xBlack, 2xBrown, 2xWhite		
<b>Insulation of 1mm<sup>2</sup> acc. to HD21.3</b>			
<b>Properties</b>	<b>Nominal value</b>	<b>Tolerance</b>	<b>Unit</b>
Material	PVC 100°C	-	-
Temperature range	-25 till +90		°C
Wall thickness	0,4	+ 0,1	mm
Outer diameter	2,1	+ 0,2	mm
Colour	Black number 1-24 on white surface		

### Laying up of cores and tape

Properties	Nominal value	Tolerance	Unit
Lay Length	280	-50	mm
Centre core	1 x 50, Blue		
Lapping helical tape	60		mm

### Outer sheet acc. to HD 603

Properties	Nominal value	Tolerance	Unit
Material	PUR	-	-
Temperature range	-55 till +80		°C
Wall thickness	3,2	+0,2	mm
Outer diameter	43,0	+1,0	mm
Colour	Orange		

### Specific properties

Properties	Nominal value	Unit	Standard
Voltage range	600/1000	V	
Routine voltage test, 5 min.	2.000	V	IEC 811
Type voltage test, 15 min. in water	4.000	V	DFS 400
Max. continuously current at ambient temp +30°C, per phase	404	A	IEC 204-1
Max. temperature for 5 sec	250	°C	
Max. short-circuit current for 5 seconds	6,0	kA	
Permissible minimum bending radius.	258	mm	DIN 0298-3
Flame Properties	Pass	Vertical	IEC 60332-1
Resistance 2 core at +20°C	0,183±0,01	Ω/Km	
Resistance 2 core at +70°C	0,220±0,01	Ω/Km	
Inductance	0,098	mH/km	
Weight, total	4,3	Kg/m	
Marking, ink printed	amokabel SXI 7X50+24X1		