

Aircraft 400 Hz Ground Power Supply Cable with Extreme abrasion resistance

Amo-Spiral

Type: **SXY-FS 7X35+18X1**
 Article:



35 mm², extra flexible, Conductor acc. to IEC 60228,6			
Properties	Nominal value	Tolerance	Unit
Wires in conductor, bare	1029 * 0,2mm	-	Pcs.
Resistance	0,546	+0,006	Ω/Km
Lay length	Rope lay	-	mm
Copper weight	305	-	Kg/km
1 mm², flexible, Conductor acc. to IEC 60228,5			
Properties	Nominal value	Tolerance	Unit
Wires in conductor, bare	32 * 0,19mm	-	Pcs.
Resistance	19,0	+0,5	Ω/Km
Lay length	45	-	mm
Copper weight	8,3	-	Kg/km
Insulation of 35mm² acc. to HD 603			
Properties	Nominal value	Tolerance	Unit
Material	XLPE 90°C	-	-
Temperature range	-45 till +90		°C
Wall thickness	1,1	+ 0,2	mm
Outer diameter	10,5	+ 0,4	mm
Colour	Lightblue, Black, Brown, White		
Insulation of 1mm² acc. to ISO 6722, B			
Properties	Nominal value	Tolerance	Unit
Material	PVC 100°C	-	-
Temperature range	-40 till +100		°C
Wall thickness	0,4	+ 0,1	mm
Outer diameter	2,1	+ 0,2	mm
Colour	Black, Grey, Red, Blue, Brown, Yellow, Green, Orange, Pink, White/+ previous colour		
Laying up of cores and tape			
Properties	Nominal value	Tolerance	Unit
Lay Length	280	-50	mm
Centre core	1 x 35, Blue		
Lapping helical tape	60		mm

Inner sheath acc. to HD 603			
Material	TPE	-	-
Temperature range	-45 till +80		°C
Outer diameter	36,0	+ 0,6	mm
Colour	Black		
Braiding of anti twist yarn			
Braiding yarn	16		Pcs
Outer sheath acc. to HD 603			
Material	TPE	-	-
Temperature range	-45 till +80		°C
Outer diameter	40,0	+1,0	mm
Colour	Black		
SPIRAL by bounded abrasion resistant PA			
Properties	Nominal value	Tolerance	Unit
Material	Polyamid	-	-
Temperature range	-55 till +100		°C
Wall thickness	1,0	+0,5	mm
Outer diameter	42,0	+ 1,0	mm
Colour	Yellow		

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	IEC 811
Max. continuously current at ambient temp +30°C, per phase	324	A	IEC 204-1
Max. temperature for 5 sec	250	°C	
Max. short-circuit current for 5 seconds	4,2	kA	
Permissible minimum bending radius.	252	mm	DIN 0298-3
Flame Properties	Pass	Vertical	IEC 332-1
Resistance 2 core at +20°C	0,267±0,01	Ω/Km	
Resistance 2 core at +70°C	0,320±0,01	Ω/Km	
Mutual capacitance	120	nF/km	
Inductance	0,093	mH/km	
Impedance	0,235	Ω/Km	
Voltage drop, $\varphi=0,8$	0,61	mV/Am	
Voltage drop, $\varphi=0,8$, 90kW, 25m, U_0	2,87	V	
Weight, total	3,1	Kg/m	
Marking, ink printed	amokabel SXY-FS 7X35+18X1		