

Aircraft 400 Hz Flexible Cable for high ambient temperature

Type: **SXK 105 7X35+18X1**
 Article:



35 mm² extra flexible conductor acc. to IEC 60228,6			
Properties	Nominal value	Tolerance	Unit
Wires in conductor, bare	1029	-	Pcs.
Wire diameter	0,20	± 0,04	mm
Resistance at +20°C	0,546	+0,006	Ω/Km
Lay length	Rope lay	-	mm
Copper weight	305	-	Kg/km
1 mm², flexible, Conductor acc. to IEC 228,5			
Properties	Nominal value	Tolerance	Unit
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

Insulation of 35mm² acc. to HD 603			
Properties	Nominal value	Tolerance	Unit
Material	XLPE 90°C	-	-
Temperature range	-45 till +90		°C
Wall thickness	1,2	+ 0,2	mm
Outer diameter	10,7	+ 0,4	mm
Colour	Lightblue, 2xBlack, 2xBrown, 2xWhite		
Insulation of 1mm² acc. to HD21.7			
Properties	Nominal value	Tolerance	Unit
Material	PVC 100°C	-	-
Temperature range	-40 till +100		°C
Wall thickness	0,6	+ 0,1	mm
Outer diameter	2,5	+ 0,2	mm
Colour	Black, Grey, Red, Blue, Brown, Yellow, Green, Orange, Pink, White/Black, White/Grey, White/Red, White/Blue, White/Brown, White/Yellow, White/Green, White/Orange, White/Pink		

Laying up of cores			
Properties	Nominal value	Tolerance	Unit
Lay Length	280	-50	mm
Centre core	1 x 35, Blue		
Lapping helical tape	30		mm

Outer sheet acc. to HD 603			
Properties	Nominal value	Tolerance	Unit
Material	105°C flexible PVC	-	-
Temperature range	-30 till +105		°C
Wall thickness	2,5	+0,5	mm
Outer diameter	37,0	+ 1,0	mm
Colour	Customer's choice		

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 +50°C, per phase	304	A	IEC 204-1
Max. short-circuit current for 5 seconds	4,2	kA	
Permissible minimum bending radius fixed inst.	225	mm	DIN 0298-3
Flame Properties	Pass	VW-1	UL1581
Flame Properties	Pass	Vertical	IEC 332-1
Flame Properties	Pass	Part 804 B	VDE 0472
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	0,095	mH/km	
Impedance	0,239	Ω/Km	
Voltage drop, $\varphi=0,8$	0,62	mV/Am	
Voltage drop, $\varphi=0,8$, 90kW, 25meter, U_0	2,89	V	
Weight, total	3,0	Kg/m	
Marking, ink printed	amokabel SXX 105 7X35+18X1		