



Aircraft 400 Hz Ground Power Retriever Cable with control wires EMC shielded and jacket of TPE.

Type: **SY 7X35+24X1 EMC ret.**

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	± 0,02	mm
Resistance	0,546	+0,006	Ω/Km
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
Copper weight	8,3	-	Kg/km
Insulation of 35mm² acc. to HD 603			
Properties	Nominal value	Tolerance	Unit
Material	Thermo plastic rubber	-	-
Temperature range	-50 to +85		°C
Wall thickness	1,4	+ 0,2	mm
Outer diameter	11,1	+ 0,4	mm
Colour	2xBlack, 2xBrown, 2xWhite, Blue		
Insulation of 1mm² acc. to HD 21,15			
Properties	Nominal value	Tolerance	Unit
Material	Polyofin 90°C	-	-
Temperature range	-40 till +90		°C
Wall thickness	0,4	+ 0,1	mm
Outer diameter	2,1	+ 0,2	mm
Colour	White with black numbers 1-24		
Laying up of signal cores and shielding			
Properties	Nominal value	Tolerance	Unit
Lay Length	75	-50	mm
Construction	6x4		

Braiding for EMC			
Properties	Nominal value	Tolerance	Unit
Braiding of tinned wire 24*9*0,15mm, 85% covering			
Lapping helical tape	30		mm

Laying up of power cores and signal wires			
Lay Length	220	-50	mm
Centre core	Blue neutral 35mm ²		
Lapping helical tape	60		mm

Outer sheath of thermo plastic rubber			
Material	TPE	-	-
Temperature range	-50 till +85		°C
Outer diameter	44,5	+1,0	mm
Colour	Customer choice		

Specific properties			
Properties	Nominal value	Unit	Standard
Voltage range	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	274	A	VDE 0298
Max. temperature for 5 sec	250	°C	
Permissible minimum bending radius.	152	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	110	nF/km	
Inductance	0,089	mH/km	
Impedance	0,348	Ω/Km	
Voltage drop, φ=0,8	0,60	mV/Am	
Voltage drop, φ=0,8, 90kW, 25m, U ₀	2,81	V	
Weight, total	3,1		Kg/m
Marking, ink printed	amokabel SYY 7X35+24X1 EMC		