

1000-volt safety wires



Designation : 1000-volts safety wires. Double jackets.

Table of the ten 1000-volts safety wires with double jackets.

Cross section area and AWG. (1).	Jacket material and operating temperature range in continuous duty.	Safety. (2).	Electrical resistance at 20 °C.	Maximum current in continuous duty at 40 °C.	Number of strands and strand diameter. (3).	Outer diameter.	Electrical conductivity. (4).	Copper purity percentage. (4).	Part number.	
0,50 mm ² . 20AWG.	Two PVC jackets. Wire wear indicator. From -20 °C to +80 °C. From -4 °F to +176 °F.	1000 V CAT III 600 V CAT IV.	0,039 Ω / m.	10 amperes.	128 x Ø0,07 mm.	Ø2,8 mm.	100 % IACS.	≥ 99,90 %.	9007 <i>Color</i>	
0,75 mm ² . 19AWG.		1000 V CAT II 1000 V CAT III 1000 V CAT IV.	0,026 Ω / m.	12 amperes.	192 x Ø0,07 mm.	Ø3,7 mm.			9010 <i>Color</i>	
1,00 mm ² . 17AWG.			0,0195 Ω / m.	20 amperes.	252 x Ø0,07 mm.	Ø3,8 mm.			9012 <i>Color</i>	
1,50 mm ² . 16AWG.			Insulation resistance : greater than 2,2 GΩ at 1000 V DC.	0,0133 Ω / m.	25 amperes.	392 x Ø0,07 mm.			Ø3,8 mm.	9015 <i>Color</i>
2,50 mm ² . 14AWG.				0,00798 Ω / m.	36 amperes.	644 x Ø0,07 mm.			Ø3,8 mm.	9017 <i>Color</i>
0,50 mm ² . 20AWG.	Two silicone jackets. Wire wear indicator. From -60 °C to +180 °C. From -76 °C to +356 °C.	1000 V CAT III 600 V CAT IV.	0,039 Ω / m.	10 amperes.	128 x Ø0,07 mm.	Ø2,7 mm.			9027 <i>Color</i>	
0,75 mm ² . 19AWG.		1000 V CAT II 1000 V CAT III 1000 V CAT IV.	0,026 Ω / m.	12 amperes.	192 x Ø0,07 mm.	Ø3,7 mm.			9028 <i>Color</i>	
1,00 mm ² . 17AWG.			0,0195 Ω / m.	20 amperes.	252 x Ø0,07 mm.	Ø3,7 mm.			9029 <i>Color</i>	
1,50 mm ² . 16AWG.			Insulation resistance : greater than 2,2 GΩ at 1000 V DC.	0,0133 Ω / m.	25 amperes.	392 x Ø0,07 mm.			Ø3,7 mm.	9040 <i>Color</i>
2,50 mm ² . 14AWG.				0,00798 Ω / m.	36 amperes.	644 x Ø0,07 mm.			Ø3,7 mm.	9050 <i>Color</i>

(1). The AWG conversion is an approximation from the electrical resistance.

(2). Safety according to EN / IEC 61010-031 with the following conditions : relative humidity, 80 % maximum for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at +40 °C ; temperature range, +5 °C to +40 °C ; indoor use ; and altitude, 2000 m maximum.

(3). The flexibility is class 6 according to EN / IEC 60228.

(4). According to EN 13602.