



HIGH TEMPERATURE WIRE STYLES

WIRE STYLES: For every equipment, appliance and fixture design, there is one or more styles that will efficiently and economically provide the required performance. Since Underwriters' Laboratories and Canadian Standards Association's requirements constantly change to reflect the needs of industry, new styles will be added as applicable. Please contact Markel for the most current approval status.

APPLIANCE WIRING CONDUCTORS: In most instances, appliance wiring conductors are constructed of either solid or stranded copper, nickel or special alloys. When copper is used, it is usually required to have a coating of tin, silver or nickel either clad or plated. For 150°C rated construction, individual wires within the conductor normally shall not be smaller than AWG #30, except solid conductors and some business machine wires which are defined by the applicable style requirements. 200°C wires require strands no smaller than AWG #26. Unless special requirements or ratings exist, the Markel Corporation supplies tinned copper conductor in labeled constructions.

FIXTURE & EQUIPMENT WIRING CONDUCTORS: Fixture and equipment wiring conductors are constructed of either solid or stranded nickel or copper. When copper is used, it shall have a coating of tin, silver or nickel with individual wires within conductors to be AWG #26 to #36 inclusive. Unless special requirements or ratings exist, the Markel Corporation supplies tinned copper conductor in labeled constructions.

SPECIAL CONSIDERATIONS: All constructions described in the data page are available with labels indicating their listing as recognized wiring materials by Underwriters' Laboratories and Canadian Standards Association and as such, incorporate all necessary markers, jackets, stripes, etc., to conform to applicable style requirements. Where these labels are not required, the Markel corporation can supply these configurations or similar constructions in custom materials designed to meet your exacting requirements.

STYLE	INSULATION	SIZE RANGE	WALL THICKNESS	RATING
1164	PTFE	#32-#10	0.013	150°C 300V
1180	PTFE	#32-#10	0.013	200°C 300V
1198	PTFE	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	150°C 600V
1199	PTFE	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C 600V

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STYLE	INSULATION	SIZE RANGE	WALL THICKNESS	RATING
1212	PTFE	#36-#16	0.008	80°C
1213	PTFE	#36-#16	0.008	105°C
1226	FEP	#32-#20 #19-#14	0.008 0.013	80°C
1227	FEP	#32-#20 #19-#10	0.008 0.013	105°C
1292	FEP (1)	#26-#20	0.006	105°C
1330	FEP	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C 600V
1331	FEP	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	150°C 600V
1332	FEP	#30-#10	0.013	200°C 300V
1333	FEP	#30-#10	0.013	150°C 300V
1371	PTFE / FEP	#36-#20 #19-#16 #15-#10 #9-#6	0.0055 0.008 0.013 0.020	105°C
1419	PTFE / FEP (2)	#30-#16	0.024	105°C
1508	ETFE	#32-#20	0.0055	105°C
1513	ETFE	#36-#20	0.005	105°C
1516	ETFE	#36-#20	0.004	105°C
1517	ETFE	#32-#20	0.006	105°C
1523	ETFE	#32-#20	0.005	105°C
1538	PTFE/FEP/PFA	#36-#20 #19-#15 #14-#10 #9-#6	0.0055 0.008 0.013 0.020	105°C 125V
1542	Polyethylene(3)	#24-#10	0.040	80°C 10KVAC 20KVDC
1577	PTFE / FEP	#32-#16	0.012	200°C

(1) with nylon jacket 0.003 (2) with shielding and PTFE or FEP jacket (3) with PVC jacket 0.020

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STYLE	INSULATION	SIZE RANGE	WALL THICKNESS	RATING
1586	ETFE	#36-#20 #19-#16 #15-#10 #9-#6	0.0055 0.008 0.013 0.020	105°C
1609	ETFE	#36-#20 #19-#16 #15-#10 #9-#6	0.0055 0.008 0.013 0.020	105°C 125V
1659	PTFE	#26-#10 #8-#2 #1-4/0	0.020 0.030 0.045	250°C 600V
1709	PFA	#32-#10	0.013	200°C 300V
1710	PFA	#32-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C 600V
1716	PTFE/FEP/PFA	#40-#20 #19-#15 #14-#10 #9-#6	0.0055 0.008 0.013 0.020	150°C 150V
1726	PFA, MFA	#32-#10 #8-#6 #4-#2 #1-4/0	0.013 0.020 0.030 0.045	250°C 300V
1727	PFA Type PF Included	#32-#10 #8-#2 #1-4/0	0.020 0.030 0.045	250°C 600V
1815	PTFE	#32-#10	0.013	250°C 300V
1901	FEP	#30-#10 #8-#2 #1-4/0	0.014 0.020 0.030	200°C 600V
1911	PTFE	#24-#10	0.028	250°C 25kVdc
1929	PFA	#32-#10	0.013	200°C 300V
1930	PFA	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C 600V

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STYLE	INSULATION	SIZE RANGE	WALL THICKNESS	RATING
10050	FEP	#30-#10 #8-#2 #1-4/0	0.018 0.030 0.045	150°C 600V
10086	ETFE	#36-#14 #12-#10 #8-#4 #3-#1 1/0-4/0	0.010 0.015 0.025 0.035 0.045	150°C 200°C 600V
10109	ETFE	#36-#18 #16-#14 #12-#10 #8-#2 #1-4/0	0.006 0.008 0.010 0.030 0.045	150°C 200°C 300V
10125	ETFE	#36-#18 #16-#14 #12-#10 #8-#2 #1-4/0	0.006 0.008 0.010 0.030 0.045	150°C 300V
10126	ETFE	#36-#14 #12-#10 #8-#4 #3-#1 1/0-4/0	0.010 0.015 0.025 0.035 0.045	150°C 600V
10185	ETFE	#24-#10	0.014	150°C 200°C 10KVAC 25KV Peak
PFAH	PFA	#14-#10 #9-#2 #1-4/0	0.020 0.030 0.045	250°C 600V
Type Z	ETFE	#14-#12 #10 #9-#4 #3-#1 1/0-4/0	0.015 0.020 0.025 0.035 0.045	150°C 200°C 600V

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STYLE	INSULATION	SIZE RANGE	WALL THICKNESS	RATING
CSA	ETFE	#32-#20	0.005	105°C 150V
CSA	ETFE	#30-#10	0.010	105°C 300V
CSA	ETFE	#32-#18 #16-#14 #12-#10 #8-#2 #1-4/0	0.006 0.008 0.010 0.030 0.045	150°C/200°C 300V
CSA	ETFE	#32-#14 #12-#10 #8-#2 #1-4/0	0.010 0.015 0.030 0.045	150°C/200°C 600V
CSA	PTFE	#26-#16	0.010	150°C 150V
CSA	PTFE	#32-#10	0.013	200°C 300V
CSA	PTFE	#30-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C 600V
CSA	PTFE	#32-#10	0.013	250°C 300V
CSA	PTFE	#26-#10 #8-#2 #1-4/0	0.020 0.030 0.045	250°C 600V
CSA	FEP	#32-#16	0.010	150°C 150V
CSA	FEP	#28-#10	0.015	180°C 300V
CSA	FEP	#28-#10	0.030	180°C 600V
CSA	FEP	#32-#10	0.013	150°C/200°C 300V
CSA	FEP	#32-#10 #8-#2	0.020 0.030	150°C/200°C 600V
CSA	PFA	#32-#10	0.013	200°C/250°C 300V
CSA	PFA	#32-#10 #8-#2 #1-4/0	0.020 0.030 0.045	200°C/250°C 600V

Note: all CSA listings include flame test rating FT1