



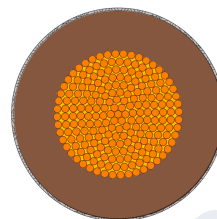
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

UL 1331 FEP 150 C 600 V HOOK-UP WIRE

Flexible high-temperature hook-up wire with FEP insulation



APPLICATION

600 V FEP hook-up wire for electronic and appliance applications, rated for continuous use up to 150 C dry and 80 C in oil.

KEY FEATURES

Parameter	Value
Application	Electronic and appliance wiring, rated 150 C dry and 80 C in oil
Voltage rating	600 V
Temperature rating	150 C dry / 80 C oil
Protection	FEP insulation with excellent chemical and fluid resistance

DESIGN

Parameter	Value
Conductor	Stranded soft-annealed tinned copper
Insulation	Extruded FEP fluoropolymer
Performance	Flexible hook-up wire for electronic and appliance applications
Construction	Available in a variety of insulation colors

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Voltage rating	600 V
Temperature rating	150 C dry / 80 C oil
Insulation	Fluorinated ethylene propylene (FEP)
Conductor	Soft-annealed, tinned copper
Standard	UL AWM Type 1331; CSA AWM I A/B, FT1
Oil resistance	Rated 80 C in oil
Chemical resistance	Excellent
Application	Electronic and appliance applications

TECHNICAL DATA

UL 1331 - DIMENSIONS AND WEIGHTS - PART 1

AWG	Stranding	Insulation thickness	Nominal O.D.	Approx. weight	Rating
30	7/38	0.020 in / 0.5 mm	0.052 in / 1.3 mm	1 lb / 1 kg/km	150 C dry / 80 C oil
28	7/36	0.020 in / 0.5 mm	0.055 in / 1.4 mm	1 lb / 1 kg/km	150 C dry / 80 C oil
28	19/40	0.020 in / 0.5 mm	0.055 in / 1.4 mm	1 lb / 1 kg/km	150 C dry / 80 C oil
26	7/34	0.020 in / 0.5 mm	0.063 in / 1.6 mm	4 lb / 5 kg/km	150 C dry / 80 C oil
26	19/38	0.020 in / 0.5 mm	0.063 in / 1.6 mm	4 lb / 5 kg/km	150 C dry / 80 C oil
24	7/32	0.020 in / 0.5 mm	0.067 in / 1.7 mm	4 lb / 3 kg/km	150 C dry / 80 C oil
24	19/36	0.020 in / 0.5 mm	0.067 in / 1.7 mm	4 lb / 7 kg/km	150 C dry / 80 C oil
22	7/30	0.020 in / 0.5 mm	0.074 in / 1.9 mm	6 lb / 8 kg/km	150 C dry / 80 C oil
22	19/34	0.020 in / 0.5 mm	0.074 in / 1.9 mm	6 lb / 3 kg/km	150 C dry / 80 C oil
20	7/28	0.020 in / 0.5 mm	0.081 in / 2.1 mm	8 lb / 11 kg/km	150 C dry / 80 C oil
20	19/32	0.020 in / 0.5 mm	0.081 in / 2.1 mm	8 lb / 12 kg/km	150 C dry / 80 C oil
18	7/26	0.020 in / 0.5 mm	0.091 in / 2.3 mm	10 lb / 15 kg/km	150 C dry / 80 C oil
18	19/30	0.020 in / 0.5 mm	0.091 in / 2.3 mm	11 lb / 16 kg/km	150 C dry / 80 C oil
16	26/30	0.020 in / 0.5 mm	0.097 in / 2.5 mm	13 lb / 19 kg/km	150 C dry / 80 C oil
14	19/27	0.020 in / 0.5 mm	0.111 in / 2.8 mm	18 lb / 27 kg/km	150 C dry / 80 C oil

TECHNICAL DATA

UL 1331 - DIMENSIONS AND WEIGHTS - PART 2					
AWG	Stranding	Insulation thickness	Nominal O.D.	Approx. weight	Rating
14	41/30	0.020 in / 0.5 mm	0.109 in / 2.8 mm	20 lb / 30 kg/km	150 C dry / 80 C oil
12	19/25	0.020 in / 0.5 mm	0.132 in / 3.4 mm	27 lb / 40 kg/km	150 C dry / 80 C oil
12	37/.0133	0.020 in / 0.5 mm	0.133 in / 3.4 mm	29 lb / 43 kg/km	150 C dry / 80 C oil
10	37/.0167	0.020 in / 0.5 mm	0.158 in / 4.0 mm	41 lb / 61 kg/km	150 C dry / 80 C oil
8	19/.0295	0.030 in / 0.8 mm	0.201 in / 5.1 mm	66 lb / 98 kg/km	150 C dry / 80 C oil
8	133/29	0.030 in / 0.8 mm	0.230 in / 5.8 mm	73 lb / 108 kg/km	150 C dry / 80 C oil
6	19/.0372	0.030 in / 0.8 mm	0.241 in / 6.1 mm	100 lb / 149 kg/km	150 C dry / 80 C oil
6	133/27	0.030 in / 0.8 mm	0.273 in / 6.9 mm	111 lb / 165 kg/km	150 C dry / 80 C oil
4	133/25	0.030 in / 0.8 mm	0.325 in / 8.3 mm	166 lb / 247 kg/km	150 C dry / 80 C oil
2	133/23	0.030 in / 0.8 mm	0.395 in / 10.0 mm	237 lb / 353 kg/km	150 C dry / 80 C oil
1	259/25	0.045 in / 1.1 mm	0.462 in / 11.7 mm	319 lb / 475 kg/km	150 C dry / 80 C oil
1/0	259/24	0.045 in / 1.1 mm	0.500 in / 12.7 mm	340 lb / 506 kg/km	150 C dry / 80 C oil
2/0	259/23	0.045 in / 1.1 mm	0.555 in / 14.1 mm	477 lb / 710 kg/km	150 C dry / 80 C oil
4/0	259/21	0.045 in / 1.1 mm	0.676 in / 17.2 mm	736 lb / 1095 kg/km	150 C dry / 80 C oil

CONSTRUCTION AND APPLICATION NOTES

Parameter	Value
Conductor	Stranded soft-annealed, tinned copper
Insulation	Extruded FEP fluoropolymer
Voltage rating	600 V
Temperature rating	150 C dry / 80 C in oil
Standards	UL AWM Type 1331; CSA AWM I A/B, FT1
Construction	Alternative solid or silver-plated copper conductors available
Note	All dimensions and weights are nominal and subject to manufacturing tolerances

CERTIFICATIONS

