



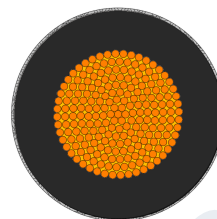
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

UL 1164 PTFE 150 C 300 V WIRE

High-temperature wire with extruded PTFE insulation



APPLICATION

300 V PTFE insulated wire for appliance wiring and demanding environments with chemical exposure, temperature extremes and dielectric stress.

KEY FEATURES

Parameter	Value
Application	General appliance wiring and equipment exposed to chemicals, temperature extremes and dielectric stress
Voltage rating	300 V; 600 V permitted by UL for electronic use only
Temperature rating	UL 1164: 150 deg C
Protection	Extruded PTFE insulation with silver-plated copper conductor

DESIGN

Parameter	Value
Conductor	Silver-plated copper
Insulation	Extruded PTFE, 0.013 in (0.33 mm) wall thickness
Identification	Surface printed as required by UL or CSA
Construction	Flexible wire available in multiple AWG and stranding options

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Voltage rating	300 V
Temperature rating	150 deg C, UL 1164
Insulation	Extruded PTFE
Insulation wall	0.013 in (0.33 mm)
Conductor	Silver-plated copper
Colours	10 standard colours available
Standards	UL 1164, UL 1180 and CSA 300 V styles
Application	Appliance wiring and high-temperature industrial applications

TECHNICAL DATA

UL 1164 - DIMENSIONS AND ELECTRICAL DATA					
AWG	Stranding	Conductor dia. in (mm)	Insulation dia. in (mm)	Weight lb/1000 ft (kg/km)	Resistance Ohm/1000 ft (Ohm/km)
10	37/0.0167	0.113 (2.87)	0.146 (3.71)	39.3 (58.5)	1.19 (3.90)
10	37/26	0.109 (2.77)	0.141 (3.58)	35.1 (52.2)	1.19 (3.90)
12	19/0.0186	0.088 (2.24)	0.125 (3.18)	26.3 (39.1)	1.81 (5.94)
12	19/25	0.084 (2.13)	0.116 (2.95)	23.2 (34.5)	1.81 (5.94)
14	19/0.0147	0.070 (1.78)	0.105 (2.67)	17.1 (25.4)	2.87 (9.41)
14	19/27	0.067 (1.70)	0.102 (2.59)	16.4 (24.4)	2.87 (9.41)
16	19/0.0117	0.056 (1.42)	0.090 (2.29)	11.6 (17.3)	4.52 (14.8)
16	19/29	0.053 (1.35)	0.086 (2.18)	11.0 (16.4)	4.54 (14.9)
18	19/30	0.047 (1.19)	0.079 (2.01)	8.79 (13.1)	5.80 (19.0)
18	7/26	0.048 (1.22)	0.079 (2.01)	8.72 (13.0)	6.01 (19.7)
20	19/32	0.038 (0.965)	0.068 (1.73)	6.09 (9.06)	8.87 (29.1)
20	7/28	0.038 (0.965)	0.068 (1.73)	6.01 (8.94)	9.56 (31.4)
20	SOLID	0.032 (0.813)	0.061 (1.55)	5.12 (7.62)	10.1 (33.1)

TECHNICAL DATA

UL 1164 - DIMENSIONS AND ELECTRICAL DATA					
AWG	Stranding	Conductor dia. in (mm)	Insulation dia. in (mm)	Weight lb/1000 ft (kg/km)	Resistance Ohm/1000 ft (Ohm/km)
22	19/34	0.030 (0.762)	0.060 (1.52)	4.34 (6.46)	14.8 (48.5)
22	7/30	0.030 (0.762)	0.060 (1.52)	4.29 (6.38)	15.2 (49.9)
22	SOLID	0.025 (0.635)	0.054 (1.37)	3.65 (5.43)	16.5 (54.1)
24	19/36	0.024 (0.610)	0.053 (1.35)	3.13 (4.66)	23.6 (77.4)
24	7/32	0.024 (0.610)	0.053 (1.35)	3.13 (4.66)	23.9 (78.4)
24	SOLID	0.020 (0.508)	0.049 (1.24)	2.72 (4.05)	25.7 (84.3)
26	19/38	0.019 (0.483)	0.048 (1.22)	2.40 (3.57)	37.3 (122)
26	7/34	0.019 (0.483)	0.048 (1.22)	2.36 (3.51)	38.7 (127)
26	SOLID	0.016 (0.406)	0.045 (1.14)	2.09 (3.11)	41.0 (134)
28	19/40	0.015 (0.381)	0.045 (1.14)	1.91 (2.84)	63.1 (207)
28	7/36	0.015 (0.381)	0.045 (1.14)	1.91 (2.84)	62.0 (203)
28	SOLID	0.013 (0.330)	0.042 (1.07)	1.68 (2.50)	65.3 (214)
30	7/38	0.012 (0.305)	0.041 (1.04)	1.52 (2.26)	97.5 (320)
32	7/40	0.009 (0.229)	0.039 (0.991)	1.29 (1.92)	166 (544)

CONSTRUCTION AND APPLICATION NOTES

Parameter	Value
Conductor	Silver-plated copper
Insulation	Extruded PTFE, 0.013 in (0.33 mm) wall
Voltage rating	300 V
Temperature rating	UL 1164: 150 deg C
Standards	UL 1164, UL 1180 and CSA 300 V styles
Note	Values are nominal; dimensions in inches and mm; weight in lb/1000 ft and kg/km

CERTIFICATIONS

