



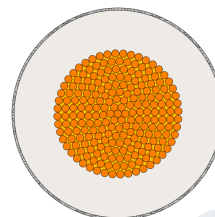
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

UL 1212 PTFE 80 C 150 V WIRE

High-temperature wire with PTFE insulation



APPLICATION

150 V PTFE insulated wire for internal electronic and electrical equipment, industrial machines and household appliances.

KEY FEATURES

Parameter	Value
Application	Internal cabling for electrical and electronic appliances and industrial machines
Voltage rating	150 V
Temperature rating	80 deg C; 105 deg C variant also available
Protection	PTFE insulation with excellent electrical, thermal and mechanical performance

DESIGN

Parameter	Value
Conductor	Bare, tin-plated, nickel-plated or silver-plated copper
Insulation	PTFE
Production range	AWG 36 to AWG 10
Construction	Solid or stranded conductor options

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Operating voltage	No requirements specified
Test voltage	1500 V
Temperature range	-65 deg C to +80 deg C / 105 deg C
Insulation	PTFE
Conductor	Bare, tin-plated, nickel-plated or silver-plated copper
UV resistance	Excellent
Chemical resistance	Excellent against aggressive chemical environments
Mechanical strength	Excellent
Approvals	UL 758; horizontal flame, FT1 and VW-1 flame tests
Application	Internal wiring, industrial machines and household appliances

TECHNICAL DATA

UL 1212 - DIMENSIONS AND ELECTRICAL DATA					
AWG	Stranding	Conductor dia. in	Wall thickness	Final O.D. in	Weight lb/kft (kg/km)
10	37	0.017	0.008	0.135	34.90 (51.93)
12	19	0.019	0.008	0.113	23.47 (34.93)
14	19	0.015	0.008	0.089	15.00 (22.32)
16	19	0.012	0.008	0.076	9.70 (14.43)
17	19	0.010	0.008	0.068	8.05 (11.97)
18	19	0.009	0.008	0.062	6.39 (9.51)
20	19	0.007	0.008	0.054	4.16 (6.19)
20	1	0.031	0.008	0.048	4.17 (6.21)
22	19	0.006	0.008	0.048	3.01 (4.48)
22	1	0.026	0.008	0.042	2.23 (3.32)
24	7	0.008	0.008	0.040	2.16 (3.21)
24	1	0.002	0.008	0.036	1.96 (2.92)

TECHNICAL DATA

UL 1212 - DIMENSIONS AND ELECTRICAL DATA					
AWG	Stranding	Conductor dia. in	Wall thickness	Final O.D. in	Weight lb/kft (kg/km)
26	7	0.006	0.008	0.035	1.56 (2.32)
26	1	0.016	0.008	0.032	1.37 (2.04)
28	7	0.005	0.008	0.031	1.32 (1.96)
28	1	0.013	0.008	0.029	1.32 (1.96)
30	7	0.004	0.008	0.028	1.02 (1.52)
30	1	0.010	0.008	0.027	0.86 (1.28)
32	7	0.003	0.008	0.026	0.78 (1.17)
32	1	0.008	0.008	0.024	0.69 (1.03)
34	7	0.002	0.008	0.024	0.73 (1.09)
34	1	0.006	0.008	0.023	0.67 (1.00)
36	7	0.002	0.008	0.022	0.52 (0.77)
36	1	0.005	0.008	0.021	0.50 (0.74)

CONSTRUCTION AND APPLICATION NOTES	
Parameter	Value
Conductor	Bare, tin-plated, nickel-plated or silver-plated copper
Insulation	PTFE
Voltage rating	150 V
Temperature rating	80 deg C / 105 deg C variant
Test voltage	1500 V
Standards	UL 758; horizontal flame, FT1 and VW-1 flame tests
Note	Values are nominal; dimensions in inches and mm; weight in lb/kft and kg/km

CERTIFICATIONS



TEBAOFLEX CABLE