

Tiger-Flex Power Cable

Flexible • 2000 Volts • 90°C

Conductors

Specially designed and manufactured for maximum flex life

Separator

Non-adhering, easy to strip. Opaque for easy identification

Insulation

Specially formulated flexible thermoset EP per ICEA S-75-381 and UL 44. Serrated and lubricated to insure long flex life. Phase identified by color code.

Reinforcement

Synthetic yarn over assembly

Jacket

Oil, chemical and heat resistant yellow thermoset extra heavy-duty chlorinated polyethylene



Application

Tiger-Flex Power Cable is designed for use in continuous flexing, twisting applications and harsh physical environments where flame, abrasion, chemicals, moisture, impact-tearing and temperature extremes are considerations.

Applications include: portable power, robotic welding, power tracks, cable tenders, hoists, spring and motor driven reels, festoon systems, cable tracks and cranes. Tiger-Flex is also suitable for indoor or outdoor use on: magnet cranes, barges, mining machines and mining equipment. This cable is suitable for installation in water, including aerator ponds.

Features

- Special lay length to ensure long flex life. Core-wrapped with high tensile binder to maintain flexing geometry
- Singles color coded for easy identification
- Singles serrated and lubricated to ensure long flex life

Ratings & Approvals

- UL listed Type W
- c(UL) listed Type TC
- c(UL) listed Type W
- Flame Resistance: FT-4, FT-5
- MSHA Approved
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Wire for Electrical Purposes
- UL 44: Thermoset-Insulated Wires and Cables
- ICEA S-75-381/NEMA WC-58: Portable and Power Feeder Cables for Use in Mines and Similar Applications

37-430TF/431TF/432TF • Tiger-Flex Power Cable

Part No. 37-	Size AWG	Numbers of Conductors	Minimum Number of Wires	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Finished Diameter	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C
430006TF	6	2	133	0.060	0.131	0.931	531	99
431006TF	6	3	133	0.060	0.148	1.020	659	99
432006TF	6	4	133	0.060	0.141	1.114	735	87
430004TF	4	2	259	0.060	0.144	1.028	704	130
431004TF	4	3	259	0.060	0.163	1.170	980	130
432004TF	4	4	259	0.060	0.161	1.270	1168	114
430002TF	2	2	259	0.060	0.180	1.269	1084	174
431002TF	2	3	259	0.060	0.160	1.350	1325	174
432002TF	2	4	259	0.060	0.186	1.480	1688	152
430001TF	1	2	259	0.080	0.178	1.439	1410	202
431001TF	1	3	259	0.080	0.171	1.518	1731	202
432001TF	1	4	259	0.080	0.187	1.681	2180	177
430010TF	1/0	2	266	0.080	0.171	1.527	1628	234
431010TF	1/0	3	266	0.080	0.191	1.650	2070	234
432010TF	1/0	4	266	0.080	0.185	1.790	2549	205
430020TF	2/0	2	342	0.080	0.181	1.649	1962	271
431020TF	2/0	3	342	0.080	0.181	1.754	2465	271
432020TF	2/0	4	342	0.080	0.189	1.931	3099	237
430030TF	3/0	2	418	0.080	0.191	1.769	2310	313
431030TF	3/0	3	418	0.080	0.197	1.894	2940	313
432030TF	3/0	4	418	0.080	0.197	2.074	3677	274
430040TF	4/0	2	532	0.080	0.201	1.927	2810	361
431040TF	4/0	3	532	0.080	0.201	2.044	3555	361
432040TF	4/0	4	532	0.080	0.213	2.265	4517	316

- Ampacity is based on a 90°C conductor temperature and 30°C ambient air, per 2005 NEC, Table 400-5 (b)
- 3/C and 4/C ampacities based on one non-current carrying conductor in the cable
- Cable diameters and weights are subject to +/- 5% manufacturing tolerance

Passes General Motors EHS-221 Robotic Application Durability Test (4 AWG, 3 conductor).