

FREP®

FR-EPR/CPE, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹—Method 4 Color Code

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated tinned annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent low temperature cold bend characteristics
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -40°C

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 750 kcmil CONDUCTORS

383830*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	49	73	98	146
296450*	3	12	7W	12	0.030	0.76	0.045	1.14	0.430	10.92	77	115	134	199
296440*	3	10	7W	10	0.030	0.76	0.060	1.52	0.495	12.57	124	185	196	292
279660	3	8	7W	10	0.045	1.14	0.060	1.52	0.635	16.13	180	268	295	439
279670	4	8	7W	10	0.045	1.14	0.060	1.52	0.700	17.78	230	342	375	558
283210	3	6	7W	8	0.045	1.14	0.060	1.52	0.710	18.03	288	429	424	631
300380	4	6	7W	8	0.045	1.14	0.060	1.52	0.795	20.19	367	546	541	805
283200	3	4	7W	8	0.045	1.14	0.080	2.03	0.870	22.10	430	640	676	1006
295390	4	4	7W	8	0.045	1.14	0.080	2.03	0.965	24.51	557	829	864	1286
293600	3	2	7W	6	0.045	1.14	0.080	2.03	1.000	25.40	710	1056	993	1478
295890	4	2	7W	6	0.045	1.14	0.080	2.03	1.100	27.94	919	1367	1252	1863
297730*	3	1	19W	6	0.055	1.40	0.080	2.03	1.130	28.70	873	1300	1226	1824
439510*	4	1	19W	6	0.055	1.40	0.080	2.03	1.245	31.62	1137	1692	1554	2313
283220	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.215	30.86	1080	1607	1469	2186
294530*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.340	34.04	1412	2101	1874	2789
284560	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.310	33.27	1340	1994	1771	2636
295360*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.445	36.70	1769	2633	2269	3377
325700*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.415	35.94	1717	2555	2198	3271
365750*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.565	39.75	2815	4189	2245	3341
325110	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.535	38.99	2130	3170	2667	3969
346980*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3537	5264
300780	3	250	37W	4	0.065	1.65	0.110	2.79	1.745	44.32	2493	3711	3238	4819
346990*	4	250	37W	4	0.065	1.65	0.110	2.79	1.925	48.90	3281	4882	4159	6189
325120	3	350	37W	3	0.065	1.65	0.110	2.79	1.965	49.91	3474	5169	4350	6474
347000*	4	350	37W	3	0.065	1.65	0.110	2.79	2.175	55.25	4576	6810	5608	8346
298020	3	500	37W	2	0.065	1.65	0.110	2.79	2.240	56.90	4928	7333	5974	8890
14407.546500*	4	500	37W	2	0.065	1.65	0.110	2.79	2.485	63.12	6500	9674	7731	11505
14407.247000*	3	750	61W	1	0.080	2.03	0.110	2.79	2.695	68.45	7351	10939	8784	13072
14407.547000*	4	750	61W	1	0.080	2.03	0.140	3.56	3.050	77.47	9713	14454	11580	17233

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



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(7/2018)