

FREP®

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



Features (cont'd.):

- 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

Packaging:

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

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)

Print:

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/C XXAWG WITH GRND EPR/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-1 or E-2 Color Code
- Insulated ground conductors
- Overall shielded multi-conductors
- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

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

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 MULTI-CONDUCTORS														
383830*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
296450*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	87	129	160	238
296440*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.485	12.32	136	202	237	353
279660	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.655	16.64	190	283	314	467
279670	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.720	18.29	242	360	393	585
283210	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.740	18.80	297	442	456	679
300380	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	561	835
283200	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.880	22.35	442	658	642	955
295390	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	822	1223
293600	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.010	25.65	703	1046	979	1457
295890	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.090	27.69	919	1368	1235	1838
297730*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1594
356740*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2264
283220	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.225	31.12	1069	1591	1439	2142
294530*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1820	2709
284560	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.300	33.02	1340	1994	1720	2560
295360*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.440	36.58	1760	2619	2208	3286
325700*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
365750*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	2788	3405
325110	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2130	3170	2614	3890
346980*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.790	45.47	2796	4161	3495	5201
300780	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.760	44.70	2494	3712	3184	4738
346990*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5981
325120	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.960	49.78	3474	5170	4187	6231
347000*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.165	54.99	4577	6811	5436	8090
298020	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.245	57.02	4934	7343	5847	8702
14407.546500*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11321
14407.247000*	3	750	61/.1109	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9145	13610
14407.547000*	4	750	61/.1109	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11805	17569

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.



Phone: 888-593-3355
www.generalcable.com