

FREP®

FR-EPR/CPE, Control, Unshielded
600 V, UL Type TC-ER¹—E-1 Color Code

Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded tinned 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 1, Table E-1 (includes white or green)

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
- Approved for direct burial
- 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
- Sunlight- and weather-resistant
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Low coefficient of friction for easy pulling
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

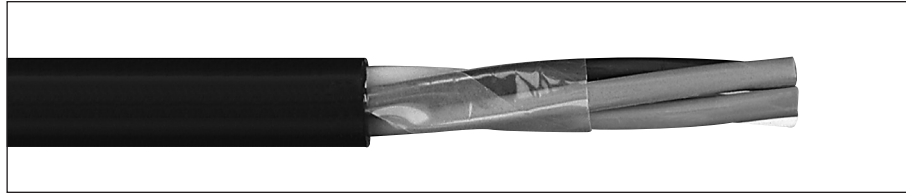
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

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)	COND. STRAND	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 CONDUCTORS

280590	2 Flat	14	7W	0.030	0.76	0.045	1.14	.360 x .225	9.14 x 5.72	24	36	58	86
280230	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	36	54	85	126
280240	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	49	73	107	159
280250	5	14	7W	0.030	0.76	0.045	1.14	0.455	11.56	61	91	131	195
280260	7	14	7W	0.030	0.76	0.045	1.14	0.500	12.70	85	126	173	257
280270	9	14	7W	0.030	0.76	0.060	1.52	0.610	15.49	109	162	238	354
280280	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	146	217	299	445
280290*	19	14	7W	0.030	0.76	0.060	1.52	0.795	20.19	231	344	443	659
385350*	25	14	7W	0.030	0.76	0.080	2.03	0.975	24.77	304	452	614	914
385360*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	365	543	700	1042
385370*	37	14	7W	0.030	0.76	0.080	2.03	1.105	28.07	449	668	856	1274

12 AWG CONDUCTORS

279850	2 Flat	12	7W	0.030	0.76	0.045	1.14	.395 x .245	10.03 x 6.22	38	57	77	115
280350*	2	12	7W	0.030	0.76	0.045	1.14	0.400	10.16	39	58	90	134
280360	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	58	86	114	170
279910	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	77	115	145	216
280370	5	12	7W	0.030	0.76	0.045	1.14	0.505	12.83	97	144	178	265
280380	7	12	7W	0.030	0.76	0.060	1.52	0.580	14.73	136	202	250	372
280390*	9	12	7W	0.030	0.76	0.060	1.52	0.675	17.15	174	259	323	481
280400	12	12	7W	0.030	0.76	0.060	1.52	0.750	19.05	232	345	409	609
383930*	19	12	7W	0.030	0.76	0.080	2.03	0.930	23.62	368	548	653	972
383940*	25	12	7W	0.030	0.76	0.080	2.03	1.080	27.43	485	722	837	1246
383950*	30	12	7W	0.030	0.76	0.080	2.03	1.145	29.08	582	866	1022	1521
330800*	37	12	7W	0.030	0.76	0.080	2.03	1.235	31.37	717	1067	1194	1777

10 AWG CONDUCTORS

280600*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.86	61	91	107	159
280420*	2	10	7W	0.030	0.76	0.045	1.14	0.450	11.43	62	92	125	186
279920	3	10	7W	0.030	0.76	0.045	1.14	0.470	11.94	93	138	159	237
279930	4	10	7W	0.030	0.76	0.060	1.52	0.550	13.97	124	185	219	326
330990*	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	155	231	270	402
280430*	7	10	7W	0.030	0.76	0.060	1.52	0.655	16.64	216	321	355	528
382880*	9	10	7W	0.030	0.76	0.060	1.52	0.760	19.30	279	415	447	665
383970*	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	372	554	614	914

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.