

FREP®

FR-EPR/CPE, Control, Unshielded 600 V or 1000 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, cable tray, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

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:

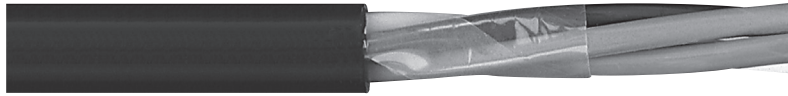
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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	
				IN	mm	IN	mm	IN	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	25	38	58	86
280230	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	39	58	84	125
280240	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	52	77	106	157
280250	5	14	7W	0.030	0.76	0.045	1.14	0.460	11.68	65	96	131	195
280260	7	14	7W	0.030	0.76	0.045	1.14	0.500	12.70	91	135	170	253
280270	9	14	7W	0.030	0.76	0.060	1.52	0.610	15.49	116	173	238	354
280280	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	295	439
280290*	19	14	7W	0.030	0.76	0.060	1.52	0.815	20.70	246	366	442	657
385350*	25	14	7W	0.030	0.76	0.080	2.03	0.935	23.75	323	481	614	913
385360*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
385370*	37	14	7W	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

12 AWG CONDUCTORS

279850	2 Flat	12	7W	0.030	0.76	0.045	1.14	.395 x .245	10.03 x 6.22	40	60	77	114
280350*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	42	62	94	140
280360	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	62	92	113	168
279910	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	82	122	143	212
280370	5	12	7W	0.030	0.76	0.045	1.14	0.505	12.83	103	153	177	264
280380	7	12	7W	0.030	0.76	0.060	1.52	0.580	14.73	144	214	247	367
280390*	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	185	275	333	495
280400	12	12	7W	0.030	0.76	0.060	1.52	0.755	19.18	247	367	400	596
383930*	19	12	7W	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
383940*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
383950*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
330800*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG CONDUCTORS

280600*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.86	64	95	106	158
280420*	2	10	7W	0.030	0.76	0.045	1.14	0.450	11.43	65	97	124	184
279920	3	10	7W	0.030	0.76	0.045	1.14	0.475	12.07	98	146	160	238
279930	4	10	7W	0.030	0.76	0.060	1.52	0.515	13.08	131	195	201	299
330990*	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	267	398
280430*	7	10	7W	0.030	0.76	0.060	1.52	0.670	17.02	229	341	349	520
382880*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	294	438	453	674
383970*	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	392	584	607	903

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.