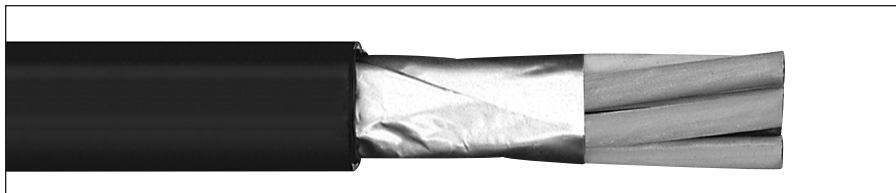


# FREP®

FR-EPR/CPE, Control, Shielded  
600 V, UL Type TC-ER<sup>1</sup>, Overall Shielded—E-2 Color Code



### Product Construction:

#### Conductor:

- 16 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-2 (does not include white or green)

#### Shield:

##### Overall shielded multi-conductor cable

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

#### Jacket:

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

### Applications:

- In free air, raceway and 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 conductors or more

### 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

### OVERALL SHIELD 16 AWG CONDUCTORS

280470	2	16	7W	0.025	0.64	0.045	1.14	0.320	8.13	24	36	58	86
280490	3	16	7W	0.025	0.64	0.045	1.14	0.335	8.51	26	39	66	98

### OVERALL SHIELD 14 AWG CONDUCTORS

280980*	2	14	7W	0.030	0.76	0.045	1.14	0.365	9.27	27	40	71	106
354800*	3	14	7W	0.030	0.76	0.045	1.14	0.390	9.91	39	58	88	131
305330*	4	14	7W	0.030	0.76	0.045	1.14	0.425	10.80	51	76	111	165
354810*	5	14	7W	0.030	0.76	0.045	1.14	0.465	11.81	63	94	137	204
354820*	7	14	7W	0.030	0.76	0.045	1.14	0.505	12.83	87	129	177	263
367120*	9	14	7W	0.030	0.76	0.060	1.52	0.615	15.62	111	165	241	359
354830*	12	14	7W	0.030	0.76	0.060	1.52	0.690	17.53	148	220	305	454
305360*	19	14	7W	0.030	0.76	0.060	1.52	0.800	20.32	233	347	449	668
367130*	25	14	7W	0.030	0.76	0.080	2.03	0.980	24.89	307	457	616	917
367140*	30	14	7W	0.030	0.76	0.080	2.03	1.035	26.29	368	548	719	1070
367150*	37	14	7W	0.030	0.76	0.080	2.03	1.110	28.19	453	674	862	1283

### OVERALL SHIELD 12 AWG CONDUCTORS

367160*	2	12	7W	0.030	0.76	0.045	1.14	0.405	10.29	41	61	95	141
367170*	3	12	7W	0.030	0.76	0.045	1.14	0.430	10.92	60	89	120	179
326650*	4	12	7W	0.030	0.76	0.045	1.14	0.470	11.94	80	119	151	225
367180*	5	12	7W	0.030	0.76	0.045	1.14	0.510	12.95	99	147	184	274
326660*	7	12	7W	0.030	0.76	0.060	1.52	0.590	14.99	137	204	256	381
367190*	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	177	263	325	484
326640*	12	12	7W	0.030	0.76	0.060	1.52	0.760	19.30	235	350	412	613
326670*	19	12	7W	0.030	0.76	0.080	2.03	0.935	23.75	370	551	656	976
367200*	25	12	7W	0.030	0.76	0.080	2.03	1.085	27.56	487	725	843	1255
367210*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	584	869	990	1473
367220*	37	12	7W	0.030	0.76	0.080	2.03	1.235	31.37	716	1066	1197	1781

### OVERALL SHIELD 10 AWG CONDUCTORS

311900*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	64	95	128	190
367230*	3	10	7W	0.030	0.76	0.045	1.14	0.480	12.19	95	141	165	246
311910*	4	10	7W	0.030	0.76	0.060	1.52	0.560	14.22	126	188	227	338
367240*	5	10	7W	0.030	0.76	0.060	1.52	0.610	15.49	157	234	273	406
367250*	7	10	7W	0.030	0.76	0.060	1.52	0.660	16.76	219	326	358	533
367260*	9	10	7W	0.030	0.76	0.060	1.52	0.770	19.56	281	418	456	679
367270*	12	10	7W	0.030	0.76	0.080	2.03	0.905	22.99	374	557	620	923

Dimensions and weights are nominal; subject to industry tolerances.

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

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



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