FREP®

FR-EPR/CPE, Instrumentation, Shielded
600 V, UL Type TC, Overall Shielded Pairs/Triads

CATALOG NUMBER	NO. OF PAIRS/ TRIADS	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 SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS													
287650*	1	18	7W	0.025	0.64	0.045	1.14	0.300	7.62	13	19	42	63
325250*	1 TRI	18	7W	0.025	0.64	0.045	1.14	0.315	8.00	18	26	53	79
337010*	2	18	7W	0.025	0.64	0.045	1.14	0.420	10.67	23	34	75	112
337020*	4	18	7W	0.025	0.64	0.045	1.14	0.490	12.45	44	65	117	174
337030*	8	18	7W	0.025	0.64	0.060	1.52	0.675	17.15	86	127	224	333
337040*	12	18	7W	0.025	0.64	0.060	1.52	0.775	19.69	127	189	305	454
294580*	16	18	7W	0.025	0.64	0.080	2.03	0.925	23.50	169	251	425	632
337050*	20	18	7W	0.025	0.64	0.080	2.03	1.025	26.04	210	313	510	759
337060*	24	18	7W	0.025	0.64	0.080	2.03	1.105	28.07	252	375	604	899
337070*	36	18	7W	0.025	0.64	0.080	2.03	1.360	34.54	377	561	865	1287
337080*	50	18	7W	0.025	0.64	0.080	2.03	1.555	39.50	523	778	1144	1703
OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS													
314960	1	16	7W	0.025	0.64	0.045	1.14	0.320	8.13	18	28	52	77
279690	1 TRI	16	7W	0.025	0.64	0.045	1.14	0.335	8.51	26	39	66	98
283170*	2	16	7W	0.025	0.64	0.045	1.14	0.460	11.68	36	54	95	141
283180*	4	16	7W	0.025	0.64	0.060	1.52	0.560	14.22	69	103	171	254
337090*	8	16	7W	0.025	0.64	0.060	1.52	0.740	18.80	135	201	294	438
283190*	12	16	7W	0.025	0.64	0.080	2.03	0.900	22.86	202	300	438	652
337100*	16	16	7W	0.025	0.64	0.080	2.03	1.015	25.78	268	399	560	833
337110*	20	16	7W	0.025	0.64	0.080	2.03	1.130	28.70	335	498	680	1012
337120*	24	16	7W	0.025	0.64	0.080	2.03	1.215	30.86	401	597	807	1201
337130*	36	16	7W	0.025	0.64	0.080	2.03	1.505	38.23	601	894	1160	1726
337140*	50	16	7W	0.025	0.64	0.080	2.03	2.095	53.21	834	1241	1702	2533

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Product Construction:

Conductor:
- 18 AWG and 16 AWG 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 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:
Overall shielded pairs/triads
- 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, raceways or direct burial
- In wet or dry locations
- 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 compression cuts and heat deformation
- Excellent flame resistance—burns to an ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40˚C

Compliances:
Industry Compliances:
- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- RoHS Compliant

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

UL LISTED

RoHS Compliant Directive 2011/65/EU

General Cable