FREP® Instrumentation, Shielded, EPR/CPE

600V, UL Type TC

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 (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/polyester in contact with stranded tinned copper drain wire

Jacket:
- Flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print:
- GENERAL CABLE® BICC® BRAND (WC) FREP XX/PS/TS XXAWG EPR/CPE SHIELDED UL TYPE TC 90°C EWT OR DRY 600V DIR BUR SUN RES MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

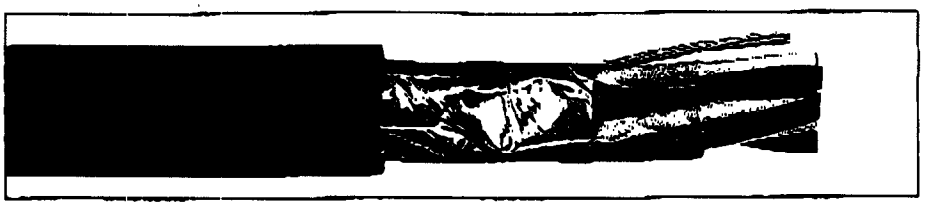
Options:
- Bare copper conductor
- Class C stranding
- Cross-Linked Polyethylene (XLPE) insulation
- FREP XL-flame-retardant, thermoset Chlorinated Polyethylene (XL-CPE) jacket
- FREP II-flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) polyolefin jacket
- FREP II-XL-flame-retardant, thermoset Low-Smoke, Zero-Halogen (XL-LSZH) polyolefin jacket
- FREP 300V-UL Type PLTC
- Other constructions available upon request

Applications:
- In free air, raceways, or direct burial in accordance with NEC
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b) for UL Type TC cables

Features:
- Rated at 90°C wet or dry
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to compression cuts
- 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 -35°C

Compliances:
- UL Type TC - 600V
- ICEA S-82-552 - 600V
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- UL Subject 1277 (70,000 BTU/hr)
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA acceptable

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



CATALOG NUMBER	NO. OF PAIRS/ TRIADS	COND. (AWG) SIZE	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/ 1000ft	kg/km	lbs/ 1000ft	kg/km
OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS													
287650	1	18	7/.0152	0.025	0.64	0.045	1.14	0.300	7.62	12.5	18.60	42	63
337000	1 TRI	18	7/.0152	0.025	0.64	0.045	1.14	0.316	8.03	17.6	26.19	53	79
337010	2	18	7/.0152	0.025	0.64	0.045	1.14	0.462	11.73	23.1	34.38	75	112
337020	4	18	7/.0152	0.025	0.64	0.045	1.14	0.518	13.16	43.9	65.33	117	174
337030	8	18	7/.0152	0.025	0.64	0.060	1.52	0.692	17.58	85.5	127.24	224	333
337040	12	18	7/.0152	0.025	0.64	0.060	1.52	0.810	20.57	127.1	189.15	312	464
294580	16	18	7/.0152	0.025	0.64	0.080	2.03	0.949	24.10	168.7	251.06	430	640
337050	20	18	7/.0152	0.025	0.64	0.080	2.03	0.989	25.12	210.3	312.67	510	759
337060	24	18	7/.0152	0.025	0.64	0.080	2.03	1.118	28.40	252.0	375.03	604	899
337070	36	18	7/.0152	0.025	0.64	0.080	2.03	1.266	32.16	376.8	560.75	849	1263
337080	50	18	7/.0152	0.025	0.64	0.080	2.03	1.454	36.93	522.5	777.58	1137	1692
OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS													
314960	1	16	7/.0192	0.025	0.64	0.045	1.14	0.324	8.23	18.4	27.58	52	77
279690	1 TRI	16	7/.0192	0.025	0.64	0.045	1.14	0.342	8.69	26.4	39.23	66	98
283170	2	16	7/.0192	0.025	0.64	0.045	1.14	0.506	12.85	36.3	54.04	95	141
283180	4	16	7/.0192	0.025	0.64	0.060	1.52	0.603	15.32	69.2	103.00	171	254
337090	8	16	7/.0192	0.025	0.64	0.060	1.52	0.759	19.28	135.3	201.35	294	438
283190	12	16	7/.0192	0.025	0.64	0.080	2.03	0.932	23.67	201.8	300.31	446	664
337100	16	16	7/.0192	0.025	0.64	0.080	2.03	1.043	26.49	268.3	399.28	568	845
337110	20	16	7/.0192	0.025	0.64	0.080	2.03	1.087	27.61	334.8	498.25	680	1012
337120	24	16	7/.0192	0.025	0.64	0.080	2.03	1.232	31.29	401.3	597.21	807	1201
337130	36	16	7/.0192	0.025	0.64	0.080	2.03	1.398	35.51	600.8	894.11	1147	1707
337140	50	16	7/.0192	0.025	0.64	0.080	2.03	1.609	40.87	833.6	1240.56	1547	2302

Dimensions and weights are nominal; subject to industry tolerance.

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UL LISTED BICC BRAND