

Product Data Sheet

FREP/CPE



Product Description

EPR insulation

CPE jacket

90 °C, 600 V

Applications

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II Div 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable."

Specifications

- CONDUCTORS: Class B stranded tinned copper per ASTM B-3, B-8 and B-33
- INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
- COLOR CODE: Conductors color coded per ICEA Method 1, Table E-2 (formerly K-2)
- ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
- OVERALL JACKET: Sunlight-resistant Chlorinated Polyethylene (CPE) per UL 1277
- STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1, XHHW-2 conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685. 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
- AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30 °C and a conductor temperature of 90 °C per NEC 310.16, the values have been derated where applicable
- TEMPERATURE: 90 °C
- VOLTAGE: 600 V

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Diameters and weights may vary among manufacturers. Other conductor counts available upon request. Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG. All part numbers require color code designation. See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2MR-1407-1).

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2MR-1402	14	2	0.030	0.045	0.260 x 0.400	60	25
2MR-1403	14	3	0.030	0.045	0.390	92	25
2MR-1404	14	4	0.030	0.045	0.425	115	20
2MR-1405	14	5	0.030	0.045	0.465	139	20
2MR-1407	14	7	0.030	0.060	0.505	183	17
2MR-1409	14	9	0.030	0.080	0.620	250	17
2MR-1412	14	12	0.030	0.080	0.700	317	12
2MR-1415	14	15	0.030	0.080	0.755	383	12
2MR-1419	14	19	0.030	0.080	0.815	468	12
2MR-1425	14	25	0.030	0.080	0.985	645	11
2MR-1430	14	30	0.030	0.080	1.050	747	10
2MR-1437	14	37	0.030	0.080	1.130	897	10
2MR-1202	12	2	0.030	0.045	0.270 x 0.430	83	30
2MR-1203	12	3	0.030	0.045	0.435	124	30
2MR-1204	12	4	0.030	0.045	0.475	157	24
2MR-1205	12	5	0.030	0.045	0.520	191	24
2MR-1207	12	7	0.030	0.060	0.595	268	24
2MR-1209	12	9	0.030	0.060	0.695	347	24
2MR-1212	12	12	0.030	0.060	0.780	437	15
2MR-1215	12	15	0.030	0.060	0.880	561	15
2MR-1219	12	19	0.030	0.080	0.955	688	15
2MR-1225	12	25	0.030	0.080	1.095	894	11
2MR-1230	12	30	0.030	0.080	1.175	1,040	11
2MR-1237	12	37	0.030	0.080	1.265	1,256	12
2MR-1002	10	2	0.030	0.045	0.290 x 0.480	112	40
2MR-1003	10	3	0.030	0.045	0.485	172	40
2MR-1004	10	4	0.030	0.060	0.560	234	32
2MR-1005	10	5	0.030	0.060	0.615	284	32
2MR-1007	10	7	0.030	0.060	0.670	381	28
2MR-1009	10	9	0.030	0.080	0.785	488	28
2MR-1012	10	12	0.03	0.08	0.605	651	20