

## EPR/CPE

**Product Description**

EPR insulation  
CPE jacket  
UL Listed Type TC

**Applications**

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential as well as commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

**Specifications**

- CONDUCTOR: Class B stranded, tinned copper per ASTM B-3, B-33
- INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-95-658 (NEMA WC70), meets UL 44 requirements for Type XHHW-2
- COLOR CODE\*: Conductors are color coded per ICEA Method 4 (printed numbers)
- ASSEMBLY: Conductors are cabled with a single UL ground wire and fillers where necessary to make round
- OVERALL JACKET: Sunlight-resistant thermoplastic Chlorinated Polyethylene (CPE)
- STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1 rated 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 (directly buried) with an ambient temperature of 30°C per 2008 NEC Table 310.16
- TEMPERATURE: 90°C
- VOLTAGE: 600 V

Electrical and Electronic Wire & Cable • Enterprise Cabling & Security Solutions • Fasteners

Anixter Inc. World Headquarters • 2301 Patriot Boulevard, Glenview, IL 60026-8020 • 1.800.ANIXTER • 224.521.8000 • anixter.com

Anixter is a leading global supplier of communications and security products, electrical and electronic wire and cable, fasteners and other small components. We help our customers specify solutions and make informed purchasing decisions around technology, applications and relevant standards. Throughout the world, we provide innovative supply chain management solutions to reduce our customers' total cost of production and implementation.

Anixter does not manufacture the items described in this publication. Any applicable product warranties are provided by the manufacturers. To the fullest extent permitted by law, Anixter disclaims all warranties, either express or implied.

The information provided and any images shown are for descriptive purposes only. Anixter makes no warranty or representation, express or implied, about the accuracy or completeness of any information provided. Data and suggestions made in the publication are not to be construed as recommendations to purchase or as authorizations to use any products in violation of any law or regulation. All products are sold subject to Anixter's General Conditions of Sale.

Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire 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
3MR-0803	8	7	10	3	0.045	0.060	0.660	299	55
3MR-0603	6	7	8	3	0.045	0.060	0.750	421	75
3MR-0403	4	7	8	3	0.045	0.080	0.890	635	95
3MR-0203	2	7	6	3	0.045	0.080	1.020	925	130
3MR-0103	1	19	6	3	0.055	0.080	1.150	1,158	150
3MR-1013	1/0	19	6	3	0.055	0.080	1.240	1,403	170
3MR-2023	2/0	19	4	3	0.055	0.080	1.340	1,709	195
3MR-3033	3/0	19	4	3	0.055	0.080	1.450	2,094	225
3MR-4043	4/0	19	4	3	0.055	0.080	1.580	2,575	260
3MR-2503	250	37	4	3	0.065	0.110	1.780	3,126	290
3MR-3503	350	37	3	3	0.065	0.110	2.010	4,219	350
3MR-5003	500	37	2	3	0.065	0.110	2.310	5,843	430

### Conductor Insulation Color Code chart ICEA Method 4: All conductors black\*

Conductor	Conductor Printing	Conductor	Conductor Printing	Conductor	Conductor Printing
1 <sup>st</sup> .	"1-ONE-1"	18 <sup>th</sup> .	"18-EIGHTEEN-18"	35 <sup>th</sup> .	"35-THIRTY-FIVE-35"
2 <sup>nd</sup> .	"2-TWO-2"	19 <sup>th</sup> .	"19-NINETEEN-19"	36 <sup>th</sup> .	"36-THIRTY-SIX-36"
3 <sup>rd</sup> .	"3-THREE-3"	20 <sup>th</sup> .	"20-TWENTY-20"	37 <sup>th</sup> .	"37-THIRTY-SEVEN-37"
4 <sup>th</sup> .	"4-FOUR-4"	21 <sup>st</sup> .	"21-TWENTY-ONE-21"	38 <sup>th</sup> .	"38-THIRTY-EIGHT-38"
5 <sup>th</sup> .	"5-FIVE-5"	22 <sup>nd</sup> .	"22-TWENTY-TWO-22"	39 <sup>th</sup> .	"39-THIRTY-NINE-39"
6 <sup>th</sup> .	"6-SIX-6"	23 <sup>rd</sup> .	"23-TWENTY-THREE-23"	40 <sup>th</sup> .	"40-FORTY-40"
7 <sup>th</sup> .	"7-SEVEN-7"	24 <sup>th</sup> .	"24-TWENTY-FOUR-24"	41 <sup>st</sup> .	"41-FORTY-ONE-41"
8 <sup>th</sup> .	"8-EIGHT-8"	25 <sup>th</sup> .	"25-TWENTY-FIVE-25"	42 <sup>nd</sup> .	"42-FORTY-TWO-42"
9 <sup>th</sup> .	"9-NINE-9"	26 <sup>th</sup> .	"26-TWENTY-SIX-26"	43 <sup>rd</sup> .	"43-FORTY-THREE-43"
10 <sup>th</sup> .	"10-TEN-10"	27 <sup>th</sup> .	"27-TWENTY-SEVEN-27"	44 <sup>th</sup> .	"44-FORTY-FOUR-44"
11 <sup>th</sup> .	"11-ELEVEN-11"	28 <sup>th</sup> .	"28-TWENTY-EIGHT-28"	45 <sup>th</sup> .	"45-FORTY-FIVE-45"
12 <sup>th</sup> .	"12-TWELVE-12"	29 <sup>th</sup> .	"29-TWENTY-NINE-29"	46 <sup>th</sup> .	"46-FORTY-SIX-46"
13 <sup>th</sup> .	"13-THIRTEEN-13"	30 <sup>th</sup> .	"30-THIRTY-30"	47 <sup>th</sup> .	"47-FORTY-SEVEN-47"
14 <sup>th</sup> .	"14-FOURTEEN-14"	31 <sup>st</sup> .	"31-THIRTY-ONE-31"	48 <sup>th</sup> .	"48-FORTY-EIGHT-48"
15 <sup>th</sup> .	"15-FIFTEEN-15"	32 <sup>nd</sup> .	"32-THIRTY-TWO-32"	49 <sup>th</sup> .	"49-FORTY-NINE-49"
16 <sup>th</sup> .	"16-SIXTEEN-16"	33 <sup>rd</sup> .	"33-THIRTY-THREE-33"	50 <sup>th</sup> .	"50-FIFTY-50"
17 <sup>th</sup> .	"17-SEVENTEEN-17"	34 <sup>th</sup> .	"34-THIRTY-FOUR-34"		

## Electrical and Electronic Wire & Cable • Enterprise Cabling & Security Solutions • Fasteners

Anixter Inc. World Headquarters • 2301 Patriot Boulevard, Glenview, IL 60026-8020 • 1.800.ANIXTER • 224.521.8000 • anixter.com

Anixter is a leading global supplier of communications and security products, electrical and electronic wire and cable, fasteners and other small components. We help our customers specify solutions and make informed purchasing decisions around technology, applications and relevant standards. Throughout the world, we provide innovative supply chain management solutions to reduce our customers' total cost of production and implementation.

Anixter does not manufacture the items described in this publication. Any applicable product warranties are provided by the manufacturers. To the fullest extent permitted by law, Anixter disclaims all warranties, either express or implied.

The information provided and any images shown are for descriptive purposes only. Anixter makes no warranty or representation, express or implied, about the accuracy or completeness of any information provided. Data and suggestions made in the publication are not to be construed as recommendations to purchase or as authorizations to use any products in violation of any law or regulation. All products are sold subject to Anixter's General Conditions of Sale.