

# MEDIUM VOLTAGE POWER CABLE

## UNISHIELD® EPR - SHIELDED POWER CABLE TYPE MV-90

COMPACT COPPER CONDUCTOR 5KV, 8KV, 15KV 90°C, 25KV AND 35KV AVAILABLE UPON REQUEST

### Construction

#### Conductors:

- Annealed bare copper Compact Class B Strand.
- Extruded Strand Shield.

#### Insulation:

- Ethylene Propylene Rubber (EPR).
- Insulation colored to contrast with black conducting shield layers.

#### Composite Insulation Shield & Jacket:

- Six corrugated copper drain wires embedded in an extruded black conducting chlorinated polyethylene (CPE-130) composite insulation shield and jacket.
- Meets or exceeds the requirements of:
  - ICEA S-68-516 and AEIC CS6 standard for EPR Insulated Wire and Cable.
  - UL 1072 for medium voltage solid dielectric cable.

#### Applications:

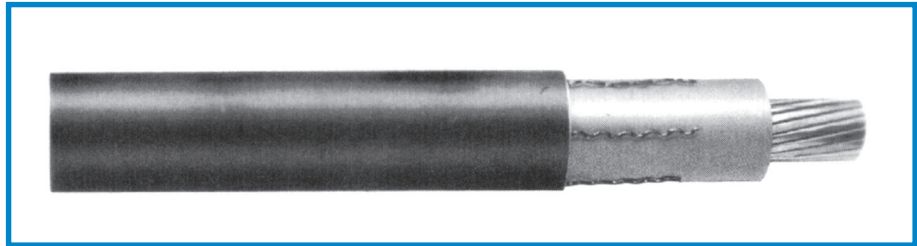
- Commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and both fossil fuel and nuclear powered generating stations.

#### Features:

- Acceptable for use in OSHA regulated installations.
- UL listed as Type MV-90 for use in accordance with the NEC.
- Sizes 250 MCM and larger are also listed "for CT use" in accordance with the NEC.
- Compact conductor and simultaneous extrusion of strand shield. Insulation and insulation shield combine to form a virtually perfect cable core.

#### EPR Insulation Advantages:

- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemicals and radiation resistance.
- EPR insulation is colored for contrast with black conducting layers to simplify cable preparation for more reliable splices and terminations.
- Combination drain wire shield and jacket provides high short circuit capability and uniform shield impedance. Embedded drain wires will not bunch up and will resist corroding.
- Chlorinated polyethylene (CPE) jackets have excellent moisture, chemical and flame resistance. CPE is a tough jacketing material easily surviving severe installation procedures, including the North Slope in Alaska.



CUSTOM CATALOG NUMBER	SIZE	STRAND	E. S. SHIELD THICKNESS	NOM. INSUL. THICKNESS	DRAIN WIRES	INSUL SHIELD & JACKET THICK	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	AWG (x6)	INCHES	INCHES	LBS/MFT
<b>5000 VOLT 133%, OR 8000 VOLT 100% 90°C</b>								
25400	2	7	0.008	0.115	20	0.075	0.710	422
25402	1/0	19	0.008	0.115	20	0.075	0.790	573
25403	2/0	19	0.008	0.115	19	0.080	0.840	687
25404	3/0	19	0.008	0.115	19	0.080	0.890	820
25405	4/0	19	0.008	0.115	19	0.080	0.940	974
25406	250	37	0.008	0.115	18	0.080	1.020	1141
25407	350	37	0.008	0.115	18	0.080	1.120	1500
25408	500	37	0.008	0.115	17	0.085	1.250	2036
25409	750	61	0.008	0.115	17	0.085	1.430	2905
25410	1000	61	0.008	0.115	16	0.100	1.620	3800
<b>15000 VOLT 100% 90°C</b>								
25420	2	7	0.008	0.175	19	0.080	0.850	520
25422	1/0	19	0.008	0.175	19	0.080	0.920	681
25423	2/0	19	0.008	0.175	19	0.080	0.960	790
25424	3/0	19	0.008	0.175	18	0.080	1.020	915
25425	4/0	19	0.008	0.175	18	0.080	1.110	1119
25426	250	37	0.008	0.175	18	0.080	1.140	1259
25427	350	37	0.008	0.175	17	0.085	1.250	1656
25428	500	37	0.008	0.175	17	0.085	1.380	2197
25429	750	61	0.008	0.175	16	0.100	1.590	3137
25430	1000	61	0.008	0.175	16	0.100	1.750	3960
<b>15000 VOLT 133% 90°C</b>								
25440	2	7	0.008	0.220	19	0.080	0.940	586
25442	1/0	19	0.008	0.220	18	0.080	1.020	762
25443	2/0	19	0.008	0.220	18	0.080	1.060	880
25444	3/0	19	0.008	0.220	18	0.080	1.140	1061
25445	4/0	19	0.008	0.220	18	0.080	1.190	1212
25446	250	37	0.008	0.220	17	0.080	1.250	1384
25447	350	37	0.008	0.220	17	0.085	1.350	1775
25448	500	37	0.008	0.220	17	0.085	1.470	2314
25449	750	61	0.008	0.220	16	0.100	1.680	3258
25450	1000	61	0.008	0.220	15	0.115	1.840	4141

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# Custom Cable Corp.

OSHA Acceptable  
Occupational Safety and Health  
Administration

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242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989

www.customwireandcable.com • email: sales@customwireandcable.com