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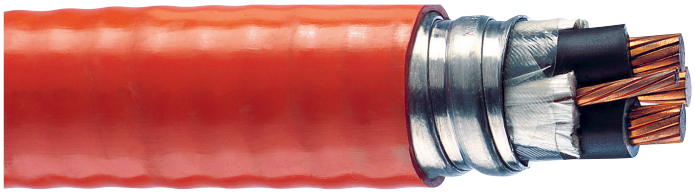
600 Volt MULTICONDUCTOR EPR MC

Low Voltage Commercial & Industrial Cables



Applications

Multiconductor cable with stranded copper conductors, extruded high dielectric strength thermosetting EPR-based insulation, Type XHHW-2, cabled with bare copper grounding conductors and fillers, core binder tape, aluminum interlocked armor (AIA) or galvanized steel interlocked armor (GSIA), overall PVC jacket.

Specifications

UL- UL 44
UL- UL 1569

ICEA- ICEA S-95-658
IEEE- IEEE 383 Flame Test

For 90°C wet or dry operation.

Ratings

Type XHHW-2
Type MC
Sunlight Resistant
For CT USE
Direct Buried

Options

- One grounding conductor
- Aluminum Conductor
- CPE Jacket
- Compact stranded conductors
- Colored jacket
- Oil resistant Jacket
- RHH/RHW-2 insulation

Design Parameters

CONDUCTOR: Class B Compressed concentric strand soft drawn annealed copper per ASTM.

INSULATION: Natural, unfilled, flame-retardant, extruded high dielectric strength thermosetting EPR-based insulation, exhibiting an optimum balance of electrical characteristics assuring extended cable life.

GROUNDING CONDUCTORS: Bare stranded copper conductors in the interstices per UL and ICEA. UL Listed cables must have grounding conductor(s).

ASSEMBLY: Insulated conductors cabled with optional moisture-resistant fillers and grounding conductors (as specified), forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability.

ARMOR: Aluminum interlocked armor (AIA) or galvanized steel interlocked (GSIA) armor applied over the cable core.

JACKET: Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the armor.

Installation

- Direct Buried
- In Cable Tray
- Dry Locations
- With Messenger
- Underground Duct
- Isolated In Air
- Wet Locations
- Industrial
- Conduit in Air

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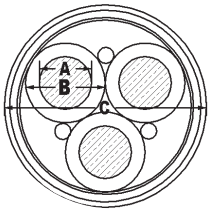

Product Number	Conductor	Insulation Thickness (mils)	Jacket Thickness (mils)	Ground Wires		Conductor Diameter (in)	Insulation Diameter (in)	Overall Diameter (in)	Weight (lbs/kft)	Minimum Bending Radius (in)	†Ampacity (Amps)
				No.	Size	(A)	(B)	(C)			90ºC
600 Volt Copper Three Conductor AIA											
QF2440A	4 AWG CU	45	50	3	10 AWG	0.225	0.32	1.06	820	8	95
QF4440A	2 AWG CU	45	50	3	10 AWG	0.283	0.38	1.18	1120	9	130
QF6440A	1 AWG CU	55	50	3	10 AWG	0.322	0.44	1.32	1365	10	150
QF8440A	1/0 AWG CU	55	50	3	10 AWG	0.362	0.48	1.41	1615	10	170
QF9440A	2/0 AWG CU	55	50	3	10 AWG	0.406	0.52	1.5	1930	11	195
QFA440A	3/0 AWG CU	55	60	3	8 AWG	0.456	0.57	1.61	2365	12	225
QFB440A	4/0 AWG CU	55	60	3	8 AWG	0.512	0.63	1.75	2875	13	260
QFC440A	250 MCM CU	65	60	3	8 AWG	0.558	0.70	1.92	3400	14	290
QFD440A	350 MCM CU	65	60	3	7 AWG	0.661	0.80	2.14	4505	15	350
QFE440A	500 MCM CU	65	75	3	6 AWG	0.789	0.93	2.42	6140	17	430
QFF440A	750 MCM CU	80	75	3	5 AWG	0.968	1.14	2.9	9035	21	535

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

2011 NEC Table 310.15(B)(16): Insulated three conductor cable installed in raceway or cable in free air or earth (directly buried), 30°C ambient air temperature, and 90°C conductor operating temperatures.

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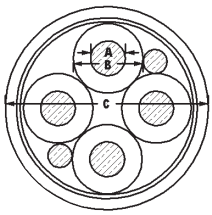

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				No.	Size	(A)	(B)	(C)			90ºC
600 Volt Copper Four Conductor AIA											
QF2450A	4 AWG CU	45	50	2	10 AWG	0.225	0.32	1.14	980	8	95
QF4450A	2 AWG CU	45	50	2	8 AWG	0.283	0.38	1.28	1395	9	130
QF6450A	1 AWG CU	55	50	2	8 AWG	0.322	0.44	1.44	1725	11	150
QF8450A	1/0 AWG CU	55	50	2	8 AWG	0.362	0.48	1.53	2050	11	170
QF9450A	2/0 AWG CU	55	50	2	8 AWG	0.406	0.52	1.64	2470	12	195
QFA450A	3/0 AWG CU	55	60	2	6 AWG	0.456	0.57	1.78	3060	13	225
QFB450A	4/0 AWG CU	55	60	2	6 AWG	0.512	0.63	1.94	3750	14	260
QFC450A	250 MCM CU	65	60	2	6 AWG	0.558	0.70	2.10	4365	15	290
QFD450A	350 MCM CU	65	60	2	5 AWG	0.661	0.80	2.35	5840	17	350
QFE450A	500 MCM CU	65	75	2	4 AWG	0.789	0.93	2.69	8055	19	430
QFF450A	750 MCM CU	80	75	2	3 AWG	0.968	1.14	3.20	11775	23	535

PRODUCT NOTES:

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†Ampacities are based on the following:

2011 NEC Table 310.15(B)(16) and 310.15(B)(3)(a): Insulated four conductor cable installed in raceway or cable in free air,30°C ambient air temperature, and 90°C conductoroperating temperature.

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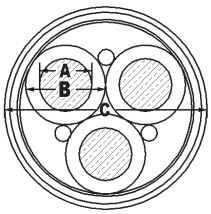

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				No.	Size	(A)	(B)	(C)			90ºC
600 Volt Copper Three Conductor GSIA											
QF2460A	4 AWG CU	45	50	3	10 AWG	0.225	0.32	1.04	980	8	95
QF4460A	2 AWG CU	45	50	3	10 AWG	0.283	0.38	1.16	1300	9	130
QF6460A	1 AWG CU	55	50	3	10 AWG	0.322	0.44	1.30	1575	10	150
QF8460A	1/0 AWG CU	55	50	3	10 AWG	0.362	0.48	1.39	1845	10	170
QF9460A	2/0 AWG CU	55	50	3	10 AWG	0.406	0.52	1.48	2175	11	195
QFA460A	3/0 AWG CU	55	60	3	8 AWG	0.456	0.57	1.59	2630	12	225
QFB460A	4/0 AWG CU	55	60	3	8 AWG	0.512	0.63	1.73	3165	13	260
QFC460A	250 MCM CU	65	60	3	8 AWG	0.558	0.70	1.91	3815	14	260
QFD460A	350 MCM CU	65	60	3	7 AWG	0.661	0.80	2.13	4975	15	350
QFE460A	500 MCM CU	65	75	3	6 AWG	0.789	0.93	2.44	6685	18	430
QFF460A	750 MCM CU	80	75	3	5 AWG	0.968	1.14	2.89	9695	21	535

PRODUCT NOTES:

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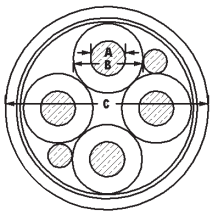

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				No.	Size	(A)	(B)	(C)			90ºC
600 Volt Copper Four Conductor GSIA											
QF2470A	4 AWG CU	45	50	2	10 AWG	0.225	0.32	1.12	1155	8	76
QF4470A	2 AWG CU	45	50	2	8 AWG	0.283	0.38	1.26	1600	9	104
QF6470A	1 AWG CU	55	50	2	8 AWG	0.322	0.44	1.42	1960	10	120
QF8470A	1/0 AWG CU	55	50	2	8 AWG	0.362	0.48	1.51	2305	11	136
QF9470A	2/0 AWG CU	55	50	2	8 AWG	0.406	0.52	1.62	2740	12	156
QFA470A	3/0 AWG CU	55	60	2	6 AWG	0.456	0.57	1.76	3355	13	180
QFB470A	4/0 AWG CU	55	60	2	6 AWG	0.512	0.63	1.93	4170	14	208
QFC470A	250 MCM CU	65	60	2	6 AWG	0.558	0.70	2.09	4825	15	232
QFD470A	350 MCM CU	65	60	2	5 AWG	0.661	0.80	2.34	6365	17	280
QFE470A	500 MCM CU	65	75	2	4 AWG	0.789	0.93	2.68	8660	19	344
QFF470A	750 MCM CU	80	75	2	3 AWG	0.968	1.14	3.19	12510	23	428

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