ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-44, UL-854, UL-1581, UL-2556; Federal Specification A-A-59544; NEMA WC70/ICEA S-95-658; American Standards Institute; NFPA 70 (NEC®) Article 310; UL 1685 (70,000 Btu/hr) Flame Test (1/0 AWG and larger); ICEA T-29-520 (210,000 Btu/hr) Flame Test; ICEA S-81-570; NEMA RV 4-2012; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-174428

Listed E-174428

RoHS COMPLIANT

CONSTRUCTION

Conductors

Stranded conductors, uncoated copper per ASTM-B8 and ASTM-B787

Insulation

Cross-linked polyethylene (XLPE) insulation per UL-854

APPLICATIONS

Type USE-2 or RHH or RHW-2 copper conductors are suitable for use in raceways installed underground in wet locations, and where condensation and moisture accumulations within the conduit do not exceed 90˚C. Applications requiring direct burial are permitted for Type USE-2, RHH, RHW-2 per UL-854. For applications requiring Type RHH or RHW-2, conductor temperatures shall not exceed 90˚C in wet or dry locations. Type USE -2 or RHH or RHW-2 is permitted for 600 volt applications.

FEATURES

10 AWG and larger rated for Sunlight Resistance in all colors. Cables comply with UL's FT-2 (horizontal wire flame). On 250 KCMIL and larger, sequential foot markings located every foot for easy measuring. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. 1/0 AWG and larger are rated for cable tray use and comply with UL-1685 (70,000 Btu/hr) flame test. When used as RHH or RHW-2, cable also complies with ICEA T-29-520 (210,000 Btu/hr) flame test. Excellent ruggedized and mechanical protection.

1. XLPE Insulation
2. Stranded Copper Conductor

Size (AWG or KCMIL)	No. of Strands	XLPE Insulation Thickness (in)		Outside Diameter		Allowable Ampacity (Amps)[1]			Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)	60°C	75°C	90°C		
12	19	1.14	0.045	4.57	0.180	20	25	30	30	1000' carton (2x500) 2500' Reels
10	19	1.14	0.045	5.16	0.203	30	35	40	43	500' 2500' Reels
8	7	1.52	0.060	6.76	0.266	40	50	55	72	500' 1000' 2500' 5000' Reels
6	7	1.52	0.060	7.72	0.304	55	65	75	106	500' 1000' 2500' 5000' Reels
4	7	1.52	0.060	8.94	0.352	70	85	95	157	500' 1000' 2500' 5000' Reels
3	7	1.52	0.060	9.65	0.380	85	100	110	201	500' 1000' 2500' 5000' Reels
2	7	1.52	0.060	10.46	0.412	95	115	130	237	500' 1000' 2500' 5000' Reels
1	19	2.03	0.080	12.22	0.481	110	130	145	309	500' 1000' 2500' 5000' Reels
1/0	19	2.03	0.080	13.21	0.520	125	150	170	382	500' 1000' 2500' 5000' Reels
2/0	19	2.03	0.080	14.33	0.564	145	175	195	471	500' 1000' 2500' 5000' Reels
3/0	19	2.03	0.080	15.60	0.614	165	200	225	587	500' 1000' 2500' 5000' Reels
4/0	19	2.03	0.080	17.02	0.670	195	230	260	729	500' 1000' 2500' 5000' Reels
250	37	2.41	0.095	18.59	0.732	215	255	290	861	500' 1000' 2500' 5000' Reels
300	37	2.41	0.095	19.91	0.784	240	285	320	1029	500' 1000' 3500' Reels
350	37	2.41	0.095	21.11	0.831	260	310	350	1193	500' 1000' 3000' Reels
400	37	2.41	0.095	22.23	0.875	280	335	380	1354	500' 1000' 3000' Reels
500	37	2.41	0.095	24.28	0.956	320	380	430	1672	500' 1000' 2500' Reels
600	61	2.79	0.110	28.27	1.113	350	420	475	2012	500' 1000' 2000' Reels
750	61	2.79	0.110	30.94	1.218	400	475	535	2493	500' 1000' 1500' Reels
1000	61	2.79	0.110	34.85	1.372	455	545	615	3287	500' 1000' Reels

[1] Ampacity of conductors are based on NFPA 70 (NEC) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

PRINT LEGEND:
12 AWG: ENCORE*WIRE*CORP*(SIZE)*TYPE*USE-2*OR*RHH*OR*RHW*OR*RHW-2*DIR-BUR*FT2*600V*XLPE*(UL)
10 AWG THROUGH 1 AWG: ENCORE*WIRE*CORP*(SIZE)*TYPE*USE-2*OR*RHH*OR*RHW*OR*RHW-2*GR2*SUN-RES*DIR-BUR*FT2*600V*XLPE*(UL)*DATE*TIME*OPERATOR*QC
1/0 AWG THROUGH 1000 KCMIL: ENCORE*WIRE*CORP*(SIZE)*TYPE*USE-2*OR*RHH*OR*RHW*OR*RHW-2*GR2*SUN-RES*DIR-BUR*FT2*600V*XLPE*FOR*CT*USE*(UL)*DATE*TIME*OPERATOR*QC

PACKAGING: Available in Encore's Cyclone Barrel Packs, Reel Payoff and Reel Deal.