

AL Conductor XLPE Insulated 35kV UL 1072

URD cable, rated MV105°C (wet and dry) Flame-retardant Cross-Linked Polyethylene XLPE insulation

Description	Units	Value
Insulation material	XLPE	
Conductor type (Three / Single)	Single	
Conductor Cross-Section	kcmil	500
Rating / Insulating level	100% or 133%	100%
Approx. Weight/Foot(K)	Lbs	1714
Number of strands of conductor and diameter	#/awg	37/Compress
Standing Class	Class B(Compress)	
Outside Diameter (OD) conductor	inches	0.776
Layer thickness semi-conducting (inner)	ICEA /inches	0.830
Insulation thickness	ICEA /inches	0.345
Layer thickness semi-conducting (outer)	ICEA /inches	1.650
Concentric neutrals (1/3)	no/AWG	15/16AWG
Concentric neutrals (1/2)	No/AWG	29/16AWG
Concentric neutrals (2/3)	No/AWG	17/12AWG
Concentric neutrals (Full)	No/AWG	n/A
Jacket thickness	inches	0.083
Jaket Color	Black/Red Stripes	
Jacket type	LLDPE/XLPE	XLPE

Description	Units	Value
Cable Diameter	inches	1.929
Service temperature rating	Deg/C	105°C
DC Resistance at 20 Dec C	ohms/1000 ft	0.0354
AC Resistance at 105 Deg C	ohms/1000 ft	0.0479
Capacitance	µF//1000ft	0.0698
Inductance	mH/1000ft	0.113
Minimum bending radius	inches	19.8
Maximum pulling tension	Lbs	3000
Ampacity of conductor (conduit in air at 20°C)	Amps/NEC 2020	490
Ampacity of conductor (underground duct at 20°C)	Amps/NEC 2020	400
Ampacity of conductor (cable tray at 40°C)	Amps/NEC 2020	515
Ampacity of conductor (conduit in air at 40°C)	Amps/NEC 2020	430
Short circuit rating of conductor	(1s, kA)	22.2
Standard for ampacity calculation	nec	nec
Packing	Wood/Metalsheath	Wood
Reactance** - Duct	Ω/1000ft	0.043
Reactance** - Direct Buried	Ω/1000ft	0.079
**In duct: Triplex, In direct buried: Spaced 7.5 inches horizonto	าเ	

Industry Standards

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ICEA S-94-649 – Standard for Concentric NeutralCables Rated 5 through 46 KVAEIC CS8 – Specification for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 KV		
UL 1072 – Medium-Voltage Power Cables		
Component Standards		
ASTM B 231 – Standard Specification forConcentric-Lay-Stranded Aluminum 1350Conductors		
ASTM B 3 – Standard Specification for Soft orAnnealed Copper Wire		
ICEA T-31-610 – Test Method for ConductingLongitudinal Water Penetration Resistance Tests		
ASTM B 5 – Standard Specification for HighConductivity Tough-Pitch Copper Refinery Shapes		
NEC-National Electric Codebook 2020		

We want to hear from you!

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