

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	4/0 AWG
Rating / Insulating level	100% or 133%	100%
Approx. Weight/Foot(K)	Lbs	1000
Number of strands of conductor and diameter	#/awg	19/Compress
Standing Class	Class B(Compress)	
Outside Diameter (OD) conductor	inches	0.504
Layer thickness semi-conducting (inner)	ICEA /inches	0.552
Insulation thickness	ICEA /inches	0.345
Layer thickness semi-conducting (outer)	ICEA /inches	1.340
Concentric neutrals (1/3)	No/AWG	7/16AWG
Concentric neutrals (1/2)	No/AWG	12/14AWG
Concentric neutrals (2/3)	No/AWG	16/14AWG
Concentric neutrals (Full)	No/AWG	23/14AWG
Jacket thickness	inches	0.051
Jaket Color	Black/Red Stripes	
Jacket type	LLDPE/XLPE	XLPE

Description	Units	Value
Cable Diameter	inches	1.555
Service temperature rating	Deg/C	105°C
DC Resistance at 20 Dec C	ohms/1000 ft	0.0836
AC Resistance at 105 Deg C	ohms/1000 ft	0.113
Capacitance	µF//1000ft	0.0522
Inductance	mH/1000ft	0.126
Minimum bending radius	inches	15.7
Maximum pulling tension	Lbs	1270
Ampacity of conductor (conduit in air at 20°C)	Amps/NEC 2020	296
Ampacity of conductor (underground duct at 20°C)	Amps/NEC 2020	245
Ampacity of conductor (cable tray at 40°C)	Amps/NEC 2020	305
Ampacity of conductor (conduit in air at 40°C)	Amps/NEC 2020	260
Short circuit rating of conductor	(1s, kA)	9.4
Standard for ampacity calculation	nec	nec
Packing	Wood/Metalsheath	Wood
Reactance** - Duct	Ω/1000ft	0.047
Reactance** - Direct Buried	Ω/1000ft	0.088
**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		
UL1072 – Medium-Voltage Power Cables		
Component Standards		
ASTM B 231 – Standard Specification forConcentric-Lay-Stranded Aluminum 1350Conductors		
ASTM B 3 – Standard Specification for Soft or Annealed 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		
DEC. Dational Electric Cadebook 2020		

We want to hear from you!

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