



## • Description

A duplex conductor URD cable consists of two parallel metallic conductors, typically made of aluminum or copper. These conductors run side by side throughout the length of the cable. Each conductor serves as a pathway for transmitting electrical power in the distribution system. Surrounding the conductors is a layer of insulation, providing electrical insulation and protection from environmental factors. Additionally, some cables may feature an outer jacket for added mechanical protection and resistance to moisture and abrasion.

## • Application

Duplex conductor URD cables are commonly used in applications where two separate electrical pathways are required. These include:

**Dual Service Lines:** Providing two separate power lines from distribution transformers to individual residential or commercial buildings.

**Secondary Distribution Lines:** Connecting secondary distribution transformers to primary distribution lines while maintaining separate circuits.

**Temporary Installations:** Utilized as temporary power lines during construction projects or emergency situations, where two separate circuits are needed.

## • Construction

**Conductors:** Typically made of aluminum or copper, the conductors are arranged in parallel, providing two separate pathways for electrical transmission.

**Insulation:** Each conductor is insulated with a layer of thermoset or thermoplastic material, such as cross-linked polyethylene (XLPE) or polyethylene (PE), to prevent electrical leakage and protect against environmental hazards.

**Jacket (Optional):** Some cables may feature an outer jacket, typically made of polyethylene (PE) or polyvinyl chloride (PVC), to provide additional mechanical protection and resistance to moisture and chemicals.

## • Specification

Secondary type URD duplex conductor 600V cable meets or exceeds the following ASTM specifications.

-ASTM B-230-Aluminum Wire, 1350-H19 for Electrical Purposes.  
-ASTM B-231-Aluminum 1350 Conductors, Concentric-lay-stranded.

-ASTM B-786-19 Wire Combination Unilay-stranded Aluminum Conductors for Subsequent Insulation.

-ASTM B-901-Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction.

-Secondary type URD duplex conductor 600V cable meets or exceeds all applicable requirements of ICEA S-105-692.

- "USE-2" per UL 854 available upon request.

## • Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

## • Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



## • National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Code Name	Phase Conductor			Neutral			Outside Dia.		Weight per 1000ft	Ampacity	
	Size	Stranding	Insul. Thick.	Size	Stranding	Insul. Thick.	Single Strand	Overall Conductor		Direct Burial	in Duct
-	AWG	No.	mils	AWG	-	mils	mils	inch	lb	A	A
Princeton	8	7	60	8	7	60	0.262	0.524	76	70	70
Mercer	6	7	60	6	7	60	0.299	0.596	91	95	70
Clemson	4	7	60	4	7	60	0.345	0.690	129	125	90
kenyon	2	7	60	2	7	60	0.403	0.806	189	187	100