

Quadruplex Service Drop Overhead Wire



APPLICATION

Primarily used for overhead service drop applications, such as: street lighting, outdoor lighting and temporary service for construction. To be used at voltages of 600v phase-to-phase or less and conductor temperatures not to exceed 90°C for cross-linked polyethylene (XLPE) insulated conductors.

CHARACTERISTICS

Voltage Rating U_0/U

0.6/1kV

Operating Temperature

-40°C to +90°C

STANDARDS

IEC60502, NFC 33-209, BS 7870, ANSI/ICEA S-76-474
AS/NZS 3560.1

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Phase conductors: Round stranded or compacted 1350-H19 aluminium or Copper conductor, AAAC, ACSR

Neutral or messenger conductor: Round stranded or compacted 6201 aluminium alloy or AAC, ACSR

Street lighting conductor: Round stranded or compacted Aluminium conductor

Insulation

XLPE, UV-resistant

Insulation Colour

Black; customization is available

ELECTRICAL CHARACTERISTICS

Table 1 : Technology requirements of copper core ABC insulated cable

Nominal cross section area of conductor	Single wire Min. No of conductor	Conductor O.D.(reference value)	Nominal thickness of insulation	The Max. Resistance of conductor at 20°C(Ω/km)		The Min, resistance of insulation at rated temperature		Breaking load of single core
				Hard copper	Soft copper	70°C	90°C	
mm ²	—	mm	mm					Hard copper
10	6	3.8	1	1.906	1.83	0.0067	0.67	3471
16	6	4.8	1.2	1.198	1.15	0.0065	0.65	5486
25	6	6	1.2	0.749	0.727	0.0054	0.54	8465
35	6	7	1.4	0.54	0.524	0.0054	0.54	11731
50	6	8.4	1.4	0.399	0.387	0.0046	0.46	16502
70	12	10	1.4	0.276	0.268	0.004	0.4	23461
95	15	11.6	1.6	0.199	0.193	0.0039	0.39	31759
120	18	13	1.6	0.158	0.153	0.0035	0.35	39911
150	18	14.6	1.8	0.128	0.124	0.0035	0.35	49505
185	30	16.2	2	0.1021	0.0991	0.0035	0.35	61846
240	34	18.4	2.2	0.0777	0.0754	0.0034	0.34	79823

Table 2: Technology requirements of aluminum core,aluminum alloy core ABC insulated cable

No.section area of conductor	Single wire Min. No Of conductor	Conductor O.D. (reference value)	Cable Max. Average outer diameter	The Max. Resistance of conductor at 20°C(Ω/km)		The Min. resistance of insulation at rated temperature		Breaking load of single core	
				Alumiumm	Aluminum alloy	70°C	90°C	Alumiumm	Aluminum alloy
mm ²	—	mm	mm						
10	6	3.8	6.5	3.08	3.574	0.0067	0.67	1650	2514
16	6	4.8	8	1.91	2.217	0.0065	0.65	2517	4022
25	6	6	9.4	1.2	1.393	0.0054	0.54	3762	6284
35	6	7	11	0.868	1.007	0.0054	0.54	5177	8800
50	6	8.4	12.3	0.641	0.744	0.0046	0.46	7011	12569
70	12	10	14.1	0.443	0.514	0.004	0.4	10354	17596
95	15	11.6	16.5	0.32	0.371	0.0039	0.39	13727	23880
120	15	13	18.1	0.253	0.294	0.0035	0.35	17339	30164
150	15	14.6	20.2	0.206	0.239	0.0035	0.35	21033	37706
185	30	16.2	22.5	0.164	0.19	0.0035	0.35	26732	46503
240	30	18.4	25.6	0.125	0.145	0.0034	0.34	34679	60329
300	30	20.8	27.2	0.1	0.116	0.0033	0.33	43349	75411
400	53	23.2	30.7	0.0778	0.0904	0.0032	0.32	55707	100548