

JIS C 3606 Standard Medium Voltage Cables Three Core APPLICATIONS

This product is used for an underground distribution cable for the lead-out parts of substations of general power distribution lines including high-capacity power distribution, cable tunnels, pipelines, directly embedded types, raising parts of telephone poles, etc.

STANDARD

JIS C 3606-2003 (6600V)

CONSTRUCTION

Conductor:	Plain annealed copper with JCS C 3102.
Conductor Screen:	The conductor screen consists of an extruded layer of non metallic, semi-conducting compound firmly bonded to the insulation to exclude all air voids.
Insulation:	XLPE.
Insulation Screen:	The insulation screen consists of an extruded layer of non metallic, semiconducting compound extruded over the insulation. The extruded semi-conducting layer shall consist of bonded or cold strippable semi-conducting compound capable of removal for jointing or terminating. As an option, a semi-conducting tape may be applied over the extruded semi-conducting layer as a bedding for the metallic layer. The minimum thickness is 0.5 mm. The screen is tightly fitted to the insulation to exclude all air voids and can be easily hand stripped on site.
Metallic Screen:	By sufficiently winding of a soft copper tape on an external semiconductive layer, each core shall be shielded, the tape is wound with overlapping about one-sixth of its width or the equivalent of that.
Over Sheath:	Black, PVC or PE.
Identification of wire cores:	Wire core identification shall be performed with 3 colors, that is, white, red and blue.

PHYSICAL PROPERTIES

Operating Temperature	up to 120°C
Cold Resistant:	-15 ± 0.5 °C

THREE CORE 6600V (TEST VOLTAGE=17KV)

DIMENSIONAL DATA

NOM. CROSS-SECTION AREA	NOM. THICKNESS	INSULATION	NOM. THICKNESS	SHEATH	APPROX. DIAMETER	OVERALL	APPROX. WEIGHT		
							CV	CE	CE/F
MM ²	MM		MM		MM		KG/KM		
8	4		2.4		32		1180	1080	1150
14	4		2.5		34		1480	1370	1450
22	4		2.5		37		1780	1560	1710
38	4		2.7		41		2430	2290	2390
60	4		2.9		46		3280	3110	3230
100	4		3.1		52		4670	4470	4610

150	4	3.3	58	6420	5870	6240
200	4.5	3.6	66	8330	8000	8220
250	4.5	3.8	71	10020	9390	9810
325	4.5	4	77	12990	12590	12860

ELECTRICAL DATA

NOM. CROSS-AREA	SECTION	MAX. CONDUCTOR RESISTANCE (20 °C)	MIN. INSULATION RESISTANCE	ELECTROSTATIC CAPACITANCE
MM ²		Ω/KM	MΩ-KM	MF/ KM
8		2.34	2500	0.21
14		1.34	2500	0.24
22		0.849	2500	0.27
38		0.491	2000	0.32
60		0.311	2000	0.37
100		0.187	1500	0.45
150		0.124	1500	0.52
200		0.0933	1500	0.51
250		0.0754	1500	0.55
325		0.0579	1500	0.61

Note:C:XLPE V:Vinyl E:PE F:Flame retardant