N2XBY Cable

CJDL Cable

APPLICATION

For installation indoors, in cable ducts, or directly in the ground. Suitable for switchgear, power stations, and industrial applications in harsh environments where a high level of mechanical protection is required.

STANDARDS

IEC 60502-1, VDE 0276-603, IS 1516.1, IEC/EN 60228
Flame retardant according to IEC/EN 60332-1

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV
Test Voltage
3.5kV
Temperature Rating
Maximum Operating: +90ºC
Maximum Short-Circuit: +250° C
Minimum Bending Radius
12 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Conductor
Class 2 Stranded copper
Insulation
XLPE (Cross-Linked Polyethylene)
Filler
Polyvinyl chloride (PVC)
Armour
Double galvanized steel tape
Outer Sheath
Polyvinyl chloride (PVC)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.
To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

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DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	2.5	1.76	0.7	1.24	13	276
2	4	2.21	0.7	1.24	14	326
2	6	2.71	0.7	1.24	15	384
2	10	3.85	0.7	1.24	17	498
2	16	4.8	0.7	1.24	19	649
2	25	5.85	0.9	1.24	22	882
2	35	6.9	0.9	1.32	24	1113
2	50	8.1	1	1.4	27	1421
2	70	9.7	1.1	1.48	31	1899
2	95	11.4	1.1	1.64	35	2482
3	1.5	1.36	0.7	1.24	12	265
3	2.5	1.76	0.7	1.24	14	342
3	4	2.21	0.7	1.24	15	417
3	6	2.71	0.7	1.24	16	501
3	10	3.85	0.7	1.24	19	704
3	16	4.8	0.7	1.24	21	938
3	25	5.85	0.9	1.24	24	1315
3	35	6.9	0.9	1.32	26	1682
3	50	8.1	1	1.4	29	2176
3	70	9.7	1.1	1.48	34	2949
3	95	11.4	1.1	1.64	38	4004
3	120	12.65	1.2	1.72	42	5215
3	150	14.4	1.4	1.88	47	6413
3	185	15.75	1.6	2.04	51	7719
3	240	18.2	1.7	2.2	58	9961
3	16+10	4.8	0.7	1.24	21	1073
3	25+16	5.85	0.9	1.24	25	1511
3	35+16	6.9	0.9	1.32	27	1861
3	50+25	8.1	1	1.4	30	2377
3	70+35	9.7	1.1	1.56	35	3235
3	95+70	11.4	1.1	1.64	39	4634
3	120+70	12.65	1.2	1.8	44	5813
3	150+70	14.4	1.4	1.88	48	6888
3	185+95	15.75	1.6	2.04	52	8412
3	240+120	18.2	1.7	2.2	59	10679
4	1.5	1.36	0.7	1.24	13	309
4	2.5	1.76	0.7	1.24	14	369
4	4	2.21	0.7	1.24	16	469
4	6	2.71	0.7	1.24	17	577
4	10	3.85	0.7	1.24	20	821
4	16	4.8	0.7	1.24	22	1113
4	25	5.85	0.9	1.32	25	1593
4	35	6.9	0.9	1.4	28	2060
4	50	8.1	1	1.48	32	2637
4	70	9.7	1.1	1.56	36	3611
4	95	11.4	1.1	1.72	41	5355
4	120	12.65	1.2	1.88	46	6590
4	150	14.4	1.4	1.96	51	8096

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DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
4	185	15.75	1.6	2.12	56	9795
4	240	18.2	1.7	2.36	63	12585
5	1.5	1.36	0.7	1.24	14	368
5	2.5	1.76	0.7	1.24	15	432
5	4	2.21	0.7	1.24	17	543
5	6	2.71	0.7	1.24	18	679
5	10	3.85	0.7	1.24	21	981
5	16	4.8	0.7	1.24	24	1351
5	25	5.85	0.9	1.32	28	1960
5	35	6.9	0.9	1.4	31	2539
5	50	8.1	1	1.48	35	3333
5	70	9.7	1	1.48	39	4507
5	95	11.4	1.1	1.56	44	6038

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20° C Ω/km
	IN CONDUIT	IN AIR	
1.5	30	24	12.1
2.5	40	32	7.41
4	52	42	4.61
6	64	53	3.08
10	86	73	1.83
16	111	96	1.15
25	143	130	0.727
35	173	160	0.524
50	205	195	0.387
70	252	247	0.268
95	303	305	0.193
120	346	355	0.153
150	390	407	0.124
185	441	469	0.0991
240	511	551	0.0754

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