

Earthing & Bonding wire

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376



Cable Designation (P15)

0.6/1kV UX, FX - UX, RX

Application Standard

- Design guide : NEK-606 & IEC 60092-353
- Flame retardant : IEC 60332-1 & IEC 60332-3 Category A
- Halogen content : IEC 60754-1, 0.5% ↓
- Cold bend / impact : CSA 22.2 No.03 (-40°C/-35°C)
- Mud resistant : NEK-606 (Mud type only)
- Smoke light transmittance : IEC 61034, 60% ↑
- Sunlight (UV) resistant : UL 1581

HV Power Cable

LV Power & Lighting Cable

Instrumentation & Communication Cable

Earthing & Bonding wire

VFD Cable

Technical Information

Construction

Sectional view	Classification	Code	Construction detail
			Stranded tinned annealed copper wires as per IEC 60228, Class 2
		RX	EPR as per IEC 60092-360
		UX	SHF2 or SHF Mud as per IEC 60092-360
		-	Insulation color : Yellow/Green (Green base with yellow strip) or Green

0.6/1kV UX (CLASS 2 CONDUCTOR)

No. of Cores	Conductor			Thickness of Insulation	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.		Nominal	Tolerance				
No.	mm²	EA	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.0	7	1.4	2.0	5.5	0.5	18.2	22	3,500	50
	1.5	7	1.7	2.0	5.8	0.5	12.2	20	3,500	58
	2.5	7	2.2	2.0	6.2	0.5	7.56	18	3,500	71
	4	7	2.7	2.0	6.7	0.6	4.70	15	3,500	89
	6	7	3.3	2.0	7.3	0.6	3.11	13	3,500	114
	10	7	4.2	2.0	8.2	0.6	1.84	11	3,500	160
	16	7	5.3	2.1	9.4	0.7	1.16	10	3,500	230
	25	7	6.6	2.4	11.3	0.8	0.734	9	3,500	350
	35	7	7.9	2.4	12.4	0.8	0.529	8	3,500	450
	50	19	9.1	2.7	14.4	0.9	0.391	8	3,500	600
	70	19	11.0	3.0	16.7	1.0	0.270	7	3,500	840
	95	19	12.9	3.0	18.6	1.0	0.195	6	3,500	1,110
	120	37	14.5	3.1	20.3	1.1	0.154	6	3,500	1,360
	150	37	16.2	3.4	22.4	1.2	0.126	6	3,500	1,660
	185	37	18.0	3.7	24.9	1.3	0.100	6	3,500	2,080
	240	61	20.6	4.0	28.1	1.4	0.0762	5	3,500	2,690
	300	61	23.1	4.3	31.0	1.5	0.0607	5	3,500	3,330

Earthing & Bonding wire

0.6/1kV FX-UX (CLASS 5 CONDUCTOR)

No. of Cores	Conductor			Thickness of Insulation	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.		Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.0	0.21	1.5	2.0	5.5	0.5	20.0	22	3,500	50
	1.5	0.26	1.8	2.0	5.8	0.5	13.7	20	3,500	58
	2.5	0.26	2.4	2.0	6.3	0.6	8.21	17	3,500	72
	4	0.31	3.0	2.0	6.8	0.6	5.09	15	3,500	91
	6	0.31	3.9	2.0	7.4	0.6	3.39	13	3,500	115
	10	0.41	5.1	2.0	8.3	0.6	1.95	11	3,500	160
	16	0.41	6.3	2.1	10.0	0.7	1.24	9	3,500	230
	25	0.41	7.8	2.4	12.1	0.8	0.795	8	3,500	340
	35	0.41	9.2	2.4	13.3	0.8	0.565	7	3,500	450
	50	0.41	11.0	2.7	15.5	0.9	0.393	7	3,500	630
	70	0.51	13.1	3.0	18.0	1.0	0.277	7	3,500	880
	95	0.51	15.1	3.1	19.9	1.1	0.210	6	3,500	1,110
	120	0.51	17.0	3.1	21.7	1.2	0.164	5	3,500	1,370
	150	0.51	19.0	3.4	24.1	1.3	0.132	5	3,500	1,710
	185	0.51	21.0	3.7	26.2	1.3	0.108	5	3,500	2,060
	240	0.51	24.0	4.0	29.5	1.5	0.0817	5	3,500	2,680
	300	0.51	27.0	4.3	32.7	1.6	0.0654	5	3,500	3,360

0.6/1kV RX

No. of Cores	Conductor			Thickness of Insulation	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.		Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.0	7	1.4	2.0	5.5	0.5	18.2	22	3,500	47
	1.5	7	1.7	2.0	5.8	0.5	12.2	20	3,500	54
	2.5	7	2.2	2.0	6.2	0.5	7.56	18	3,500	67
	4	7	2.7	2.0	6.7	0.6	4.70	15	3,500	85
	6	7	3.3	2.0	7.3	0.6	3.11	13	3,500	109
	10	7	4.2	2.0	8.2	0.6	1.84	11	3,500	150
	16	7	5.3	2.1	9.4	0.7	1.16	10	3,500	220
	25	7	6.6	2.3	11.1	0.7	0.734	9	3,500	330
	35	7	7.9	2.4	12.4	0.8	0.529	8	3,500	440
	50	19	9.1	2.7	14.4	0.9	0.391	8	3,500	590
	70	19	11.0	2.9	16.5	1.0	0.270	7	3,500	810
	95	19	12.9	3.0	18.6	1.0	0.195	6	3,500	1,090
	120	37	14.5	3.1	20.3	1.1	0.154	6	3,500	1,340
	150	37	16.2	3.4	22.4	1.2	0.126	6	3,500	1,630
	185	37	18.0	3.7	24.9	1.3	0.100	6	3,500	203
	240	61	20.6	4.0	28.1	1.4	0.0762	5	3,500	2,640
	300	61	23.1	4.3	31.0	1.5	0.0607	5	3,500	3,270