



### Cable Designation (S101, -)

250V RFOU(i), 250 RFCU(i), 250V RFBU(i)  
250V RFOU(i&c), 250 RFCU(i&c), 250V RFBU(i&c)

### Application Standard

- Design guide : NEK-606 & IEC 60092-376
- Flame retardant : IEC 60332-1 & IEC 60332-3 Category A
- Halogen content : IEC 60754-1, 0.5%↓
- Cold bend / impact : CSA C22.2 No. 2556 or IEC 60092-350 Annex.E Method 1 (-40°C/-35°C)
- Mud / Oil resistant : NEK 606 (Category a,b,c,d)
- Smoke light transmittance : IEC 61034, 60%↑
- Sunlight (UV) resistant : UL 1581

HV Power Cable

LV Power & Lighting Cable

Instrumentation & Communication Cable

### Construction

Sectional view	Classification	Code	Construction detail
	Conductor		- Stranded tinned annealed copper wires as per IEC 60228, Class 2
	Insulation	<b>R</b>	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Individual screen	<b>(i)</b>	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 1P, 1T for 250V RFO(C,B) (i&c), individual screen is omitted.
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	<b>(c)</b>	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 250V RFO(C,B)U(i), collective screen is omitted.
	Inner covering	<b>F</b>	- Flame retardant halogen free thermoset compound
	Armor	<b>O</b> <b>(B,C)</b>	- Braid of tinned copper wire (O) / bronze wire (B) /galvanized steel wire (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	<b>U</b>	- SHF2 as per IEC 60092-360 - <b>Option</b> : NEK 606 Category a,b,c,d Mud or oil resistant- Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue    ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

**Note.** Flexible cable (Class5 Conductor) can be supplied

Earthing & Bonding wire

VFD Cable

Technical Information

# Instrumentation & Communication Cable

250V RFOU(i), 250 RFCU(i), 250V RFBU(i)  
250V RFOU(i&c), 250 RFCU(i&c), 250V RFBU(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight Approx.
	Nominal Area	Max. No. of wires	Max. overall dia.						Nominal	Tolerance				
No.	mm <sup>2</sup>	EA	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km	
1P	0.75	7	1.2	0.6	1.0	7.1	0.3	1.1	10.7	0.8	26.3	1,170	1,500	200
2P	0.75	7	1.2	0.6	1.0	11.1	0.3	1.3	15.1	0.9	26.3	1,170	1,500	370
3P	0.75	7	1.2	0.6	1.0	11.8	0.3	1.3	15.7	1.0	26.3	1,170	1,500	410
4P	0.75	7	1.2	0.6	1.0	12.9	0.3	1.4	17.0	1.0	26.3	1,170	1,500	490
5P	0.75	7	1.2	0.6	1.0	14.4	0.3	1.4	18.5	1.1	26.3	1,170	1,500	570
6P	0.75	7	1.2	0.6	1.0	15.0	0.3	1.5	19.2	1.3	26.3	1,170	1,500	620
7P	0.75	7	1.2	0.6	1.0	15.0	0.3	1.5	19.2	1.3	26.3	1,170	1,500	650
8P	0.75	7	1.2	0.6	1.0	16.5	0.3	1.5	20.7	1.3	26.3	1,170	1,500	730
10P	0.75	7	1.2	0.6	1.0	18.8	0.3	1.6	23.2	1.4	26.3	1,170	1,500	890
12P	0.75	7	1.2	0.6	1.0	19.5	0.3	1.6	23.9	1.4	26.3	1,170	1,500	970
14P	0.75	7	1.2	0.6	1.0	20.6	0.3	1.7	25.0	1.6	26.3	1,170	1,500	1,080
16P	0.75	7	1.2	0.6	1.0	22.1	0.3	1.7	26.6	1.6	26.3	1,170	1,500	1,200
19P	0.75	7	1.2	0.6	1.0	22.6	0.3	1.8	27.2	1.6	26.3	1,170	1,500	1,320
24P	0.75	7	1.2	0.6	1.0	26.4	0.3	1.9	31.3	1.8	26.3	1,170	1,500	1,650
32P	0.75	7	1.2	0.6	1.2	29.5	0.3	2.0	34.5	1.9	26.3	1,170	1,500	2,100
1P	1.0	7	1.4	0.6	1.0	7.5	0.3	1.2	11.2	0.9	19.3	1,050	1,500	220
2P	1.0	7	1.4	0.6	1.0	11.8	0.3	1.3	15.8	0.9	19.3	1,050	1,500	410
3P	1.0	7	1.4	0.6	1.0	12.5	0.3	1.4	16.6	1.1	19.3	1,050	1,500	470
4P	1.0	7	1.4	0.6	1.0	13.8	0.3	1.4	17.9	1.1	19.3	1,050	1,500	550
5P	1.0	7	1.4	0.6	1.0	15.4	0.3	1.5	19.6	1.3	19.3	1,050	1,500	650
6P	1.0	7	1.4	0.6	1.0	16.0	0.3	1.5	20.3	1.3	19.3	1,050	1,500	700
7P	1.0	7	1.4	0.6	1.0	16.0	0.3	1.5	20.3	1.3	19.3	1,050	1,500	730
8P	1.0	7	1.4	0.6	1.0	17.6	0.3	1.6	21.9	1.4	19.3	1,050	1,500	840
10P	1.0	7	1.4	0.6	1.0	20.1	0.3	1.7	24.6	1.6	19.3	1,050	1,500	1,030
12P	1.0	7	1.4	0.6	1.0	20.9	0.3	1.7	25.5	1.6	19.3	1,050	1,500	1,130
14P	1.0	7	1.4	0.6	1.0	22.0	0.3	1.7	26.6	1.6	19.3	1,050	1,500	1,240
16P	1.0	7	1.4	0.6	1.0	23.7	0.3	1.8	28.4	1.6	19.3	1,050	1,500	1,400
19P	1.0	7	1.4	0.6	1.0	24.2	0.3	1.8	28.9	1.6	19.3	1,050	1,500	1,520
24P	1.0	7	1.4	0.6	1.2	29.1	0.3	2.0	34.2	1.7	19.3	1,050	1,500	2,040
32P	1.0	7	1.4	0.6	1.2	31.6	0.4	2.1	37.2	1.9	19.3	1,050	1,500	2,550
1P	1.5	7	1.7	0.7	1.0	8.5	0.3	1.2	12.3	0.9	12.9	1,020	1,500	260
2P	1.5	7	1.7	0.7	1.0	13.6	0.3	1.4	17.7	1.0	12.9	1,020	1,500	500
3P	1.5	7	1.7	0.7	1.0	14.4	0.3	1.4	18.5	1.1	12.9	1,020	1,500	570
4P	1.5	7	1.7	0.7	1.0	15.9	0.3	1.5	20.2	1.2	12.9	1,020	1,500	670
5P	1.5	7	1.7	0.7	1.0	17.8	0.3	1.6	22.2	1.4	12.9	1,020	1,500	800
6P	1.5	7	1.7	0.7	1.0	18.5	0.3	1.6	23.0	1.4	12.9	1,020	1,500	880
7P	1.5	7	1.7	0.7	1.0	18.5	0.3	1.6	23.0	1.4	12.9	1,020	1,500	920
8P	1.5	7	1.7	0.7	1.0	20.4	0.3	1.7	24.9	1.5	12.9	1,020	1,500	1,050
10P	1.5	7	1.7	0.7	1.0	23.3	0.3	1.8	28.1	1.5	12.9	1,020	1,500	1,290
12P	1.5	7	1.7	0.7	1.0	24.3	0.3	1.8	29.1	1.6	12.9	1,020	1,500	1,420
14P	1.5	7	1.7	0.7	1.0	25.6	0.3	1.9	30.5	1.7	12.9	1,020	1,500	1,590
16P	1.5	7	1.7	0.7	1.2	28.4	0.3	2.0	33.0	2.1	12.9	1,020	1,500	1,900
19P	1.5	7	1.7	0.7	1.2	29.0	0.3	2.0	34.1	2.1	12.9	1,020	1,500	2,050
24P	1.5	7	1.7	0.7	1.2	33.9	0.4	2.2	39.7	2.1	12.9	1,020	1,500	2,710
32P	1.5	7	1.7	0.7	1.2	36.8	0.4	2.3	42.8	2.1	12.9	1,020	1,500	3,270
1P	2.5	7	2.2	0.7	1.0	9.3	0.3	1.2	13.1	0.8	8.02	850	1,500	300
2P	2.5	7	2.2	0.7	1.0	15.0	0.3	1.5	19.2	1.2	8.02	850	1,500	600
3P	2.5	7	2.2	0.7	1.0	15.9	0.3	1.5	20.2	1.2	8.02	850	1,500	700
4P	2.5	7	2.2	0.7	1.0	17.5	0.3	1.6	21.9	1.3	8.02	850	1,500	840
5P	2.5	7	2.2	0.7	1.0	19.7	0.3	1.6	24.2	1.3	8.02	850	1,500	1,000
6P	2.5	7	2.2	0.7	1.0	20.5	0.3	1.7	25.2	1.4	8.02	850	1,500	1,110
7P	2.5	7	2.2	0.7	1.0	20.5	0.3	1.7	25.2	1.4	8.02	850	1,500	1,170
8P	2.5	7	2.2	0.7	1.0	22.6	0.3	1.8	27.4	1.5	8.02	850	1,500	1,340
10P	2.5	7	2.2	0.7	1.0	25.9	0.3	1.9	30.9	1.5	8.02	850	1,500	1,660
12P	2.5	7	2.2	0.7	1.0	27.0	0.3	1.9	32.0	1.7	8.02	850	1,500	1,840
14P	2.5	7	2.2	0.7	1.2	29.3	0.3	2.0	34.5	1.7	8.02	850	1,500	2,170
16P	2.5	7	2.2	0.7	1.2	31.5	0.4	2.1	37.2	1.8	8.02	850	1,500	2,540
19P	2.5	7	2.2	0.7	1.2	32.2	0.4	2.2	38.0	2.0	8.02	850	1,500	2,790
24P	2.5	7	2.2	0.7	1.2	37.7	0.4	2.4	43.8	2.2	8.02	850	1,500	3,550
32P	2.5	7	2.2	0.7	1.4	41.4	0.4	2.5	47.8	2.3	8.02	850	1,500	4,410

**250V RFOU(i), 250 RFCU(i), 250V RFBU(i)**  
**250V RFOU(i&c), 250 RFCU(i&c), 250V RFBU(i&c)**

No. of Triads	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight Approx.
	Nominal Area	Max. No. of wires	Max. overall dia.						Nominal	Tolerance				
No.	mm <sup>2</sup>	EA	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km	
1T	0.75	7	1.2	0.6	1.0	7.5	0.3	1.2	11.2	0.9	26.3	1,170	1,500	220
2T	0.75	7	1.2	0.6	1.0	11.9	0.3	1.3	15.8	1.0	26.3	1,170	1,500	410
3T	0.75	7	1.2	0.6	1.0	12.7	0.3	1.4	16.7	1.1	26.3	1,170	1,500	480
4T	0.75	7	1.2	0.6	1.0	13.9	0.3	1.4	18.0	1.1	26.3	1,170	1,500	560
5T	0.75	7	1.2	0.6	1.0	15.5	0.3	1.5	19.8	1.2	26.3	1,170	1,500	660
6T	0.75	7	1.2	0.6	1.0	17.5	0.3	1.6	21.9	1.4	26.3	1,170	1,500	780
7T	0.75	7	1.2	0.6	1.0	17.5	0.3	1.6	21.9	1.4	26.3	1,170	1,500	820
8T	0.75	7	1.2	0.6	1.0	18.8	0.3	1.6	23.2	1.4	26.3	1,170	1,500	910
10T	0.75	7	1.2	0.6	1.0	21.3	0.3	1.7	25.9	1.5	26.3	1,170	1,500	1,100
12T	0.75	7	1.2	0.6	1.0	22.6	0.3	1.8	27.3	1.6	26.3	1,170	1,500	1,240
14T	0.75	7	1.2	0.6	1.0	23.6	0.3	1.8	28.4	1.6	26.3	1,170	1,500	1,360
16T	0.75	7	1.2	0.6	1.0	25.2	0.3	1.9	30.0	1.8	26.3	1,170	1,500	1,520
19T	0.75	7	1.2	0.6	1.2	28.0	0.3	2.0	32.6	2.2	26.3	1,170	1,500	1,850
24T	0.75	7	1.2	0.6	1.2	31.1	0.4	2.1	36.7	2.2	26.3	1,170	1,500	2,310
32T	0.75	7	1.2	0.6	1.2	35.7	0.4	2.3	41.5	2.3	26.3	1,170	1,500	2,940
1T	1.0	7	1.4	0.6	1.0	7.9	0.3	1.2	11.7	0.9	19.3	1,050	1,500	240
2T	1.0	7	1.4	0.6	1.0	12.6	0.3	1.4	16.7	1.1	19.3	1,050	1,500	460
3T	1.0	7	1.4	0.6	1.0	13.4	0.3	1.4	17.5	1.1	19.3	1,050	1,500	530
4T	1.0	7	1.4	0.6	1.0	14.8	0.3	1.4	18.9	1.1	19.3	1,050	1,500	630
5T	1.0	7	1.4	0.6	1.0	16.4	0.3	1.5	20.7	1.1	19.3	1,050	1,500	740
6T	1.0	7	1.4	0.6	1.0	18.6	0.3	1.6	23.1	1.3	19.3	1,050	1,500	890
7T	1.0	7	1.4	0.6	1.0	18.6	0.3	1.6	23.1	1.3	19.3	1,050	1,500	930
8T	1.0	7	1.4	0.6	1.0	20.0	0.3	1.7	24.5	1.4	19.3	1,050	1,500	1,040
10T	1.0	7	1.4	0.6	1.0	22.7	0.3	1.8	27.4	1.6	19.3	1,050	1,500	1,270
12T	1.0	7	1.4	0.6	1.0	24.1	0.3	1.8	28.9	1.6	19.3	1,050	1,500	1,430
14T	1.0	7	1.4	0.6	1.0	25.2	0.3	1.9	30.0	1.7	19.3	1,050	1,500	1,580
16T	1.0	7	1.4	0.6	1.0	26.8	0.3	1.9	31.7	1.7	19.3	1,050	1,500	1,750
19T	1.0	7	1.4	0.6	1.2	29.9	0.3	2.0	34.9	1.9	19.3	1,050	1,500	2,130
24T	1.0	7	1.4	0.6	1.2	33.1	0.4	2.2	38.9	2.0	19.3	1,050	1,500	2,680
32T	1.0	7	1.4	0.6	1.4	38.4	0.4	2.4	44.3	2.6	19.3	1,050	1,500	3,500
1T	1.5	7	1.7	0.7	1.0	9.0	0.3	1.2	12.8	0.9	12.9	1,020	1,500	290
2T	1.5	7	1.7	0.7	1.0	14.5	0.3	1.4	18.7	1.1	12.9	1,020	1,500	560
3T	1.5	7	1.7	0.7	1.0	15.5	0.3	1.5	19.8	1.1	12.9	1,020	1,500	660
4T	1.5	7	1.7	0.7	1.0	17.1	0.3	1.5	21.4	1.1	12.9	1,020	1,500	780
5T	1.5	7	1.7	0.7	1.0	19.1	0.3	1.6	23.6	1.3	12.9	1,020	1,500	940
6T	1.5	7	1.7	0.7	1.0	21.7	0.3	1.7	26.3	1.4	12.9	1,020	1,500	1,120
7T	1.5	7	1.7	0.7	1.0	21.7	0.3	1.7	26.3	1.4	12.9	1,020	1,500	1,180
8T	1.5	7	1.7	0.7	1.0	23.3	0.3	1.8	28.1	1.5	12.9	1,020	1,500	1,330
10T	1.5	7	1.7	0.7	1.0	26.6	0.3	1.9	31.6	1.7	12.9	1,020	1,500	1,630
12T	1.5	7	1.7	0.7	1.2	29.0	0.3	2.0	34.1	1.7	12.9	1,020	1,500	1,950
14T	1.5	7	1.7	0.7	1.2	30.3	0.4	2.1	35.7	2.1	12.9	1,020	1,500	2,240
16T	1.5	7	1.7	0.7	1.2	32.2	0.4	2.2	38.0	2.1	12.9	1,020	1,500	2,500
19T	1.5	7	1.7	0.7	1.2	34.9	0.4	2.3	40.9	2.1	12.9	1,020	1,500	2,880
24T	1.5	7	1.7	0.7	1.4	39.1	0.4	2.4	45.1	2.4	12.9	1,020	1,500	3,550
32T	1.5	7	1.7	0.7	1.4	45.0	0.4	2.7	51.6	2.6	12.9	1,020	1,500	4,580
1T	2.5	7	2.2	0.7	1.0	9.8	0.3	1.2	13.6	0.8	8.02	850	1,500	340
2T	2.5	7	2.2	0.7	1.0	16.0	0.3	1.5	20.4	1.0	8.02	850	1,500	690
3T	2.5	7	2.2	0.7	1.0	17.0	0.3	1.5	21.4	1.0	8.02	850	1,500	820
4T	2.5	7	2.2	0.7	1.0	18.8	0.3	1.6	23.4	1.1	8.02	850	1,500	990
5T	2.5	7	2.2	0.7	1.0	21.0	0.3	1.7	25.8	1.2	8.02	850	1,500	1,190
6T	2.5	7	2.2	0.7	1.0	23.9	0.3	1.8	28.9	1.4	8.02	850	1,500	1,430
7T	2.5	7	2.2	0.7	1.0	23.9	0.3	1.8	28.9	1.4	8.02	850	1,500	1,510
8T	2.5	7	2.2	0.7	1.0	25.7	0.3	1.9	30.9	1.4	8.02	850	1,500	1,710
10T	2.5	7	2.2	0.7	1.2	30.1	0.4	2.1	35.8	1.8	8.02	850	1,500	2,310
12T	2.5	7	2.2	0.7	1.2	32.0	0.4	2.1	37.9	1.8	8.02	850	1,500	2,610
14T	2.5	7	2.2	0.7	1.2	33.4	0.4	2.2	39.5	1.8	8.02	850	1,500	2,900
16T	2.5	7	2.2	0.7	1.2	35.6	0.4	2.3	41.9	1.8	8.02	850	1,500	3,250
19T	2.5	7	2.2	0.7	1.4	38.9	0.4	2.4	45.4	1.9	8.02	850	1,500	3,830
24T	2.5	7	2.2	0.7	1.4	43.2	0.4	2.6	50.1	2.1	8.02	850	1,500	4,670
32T	2.5	7	2.2	0.7	1.6	50.3	0.4	2.9	57.7	2.3	8.02	850	1,500	6,200

HV Power Cable

LV Power &amp; Lighting Cable

Instrumentation &amp; Communication Cable

Earthing &amp; Bonding wire

VFD Cable

Technical Information