



Cable Designation (S2, S2/S6)

250V RFOU(C), RFCU(C), RFBUC)

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 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
	Conductor		- Stranded tinned annealed copper wires as per IEC 60228, Class 2
	Insulation	R	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	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	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- 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	U	- SHF2 or SHF Mud as per IEC 60092-360 - 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

Instrumentation & Communication Cable

250V RFOU(c), 250V RFCU(c), 250V RFBU(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 ²	EA	mm	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	6.8	0.3	1.1	10.5	0.6	26.3	1,170	1,500	200
2P	0.75	7	1.2	0.6	1.0	10.0	0.3	1.3	14.1	0.7	26.3	1,170	1,500	300
3P	0.75	7	1.2	0.6	1.0	10.7	0.3	1.3	14.8	0.7	26.3	1,170	1,500	340
4P	0.75	7	1.2	0.6	1.0	11.4	0.3	1.3	15.5	0.8	26.3	1,170	1,500	380
5P	0.75	7	1.2	0.6	1.0	12.8	0.3	1.4	17.1	0.8	26.3	1,170	1,500	450
6P	0.75	7	1.2	0.6	1.0	13.7	0.3	1.4	18.0	0.8	26.3	1,170	1,500	490
7P	0.75	7	1.2	0.6	1.0	13.7	0.3	1.4	18.0	0.8	26.3	1,170	1,500	520
8P	0.75	7	1.2	0.6	1.0	14.6	0.3	1.4	18.9	0.9	26.3	1,170	1,500	560
10P	0.75	7	1.2	0.6	1.0	16.5	0.3	1.5	21.0	0.9	26.3	1,170	1,500	660
12P	0.75	7	1.2	0.6	1.0	17.2	0.3	1.5	21.7	1.0	26.3	1,170	1,500	730
14P	0.75	7	1.2	0.6	1.0	17.8	0.3	1.6	22.5	1.0	26.3	1,170	1,500	800
16P	0.75	7	1.2	0.6	1.0	19.2	0.3	1.6	23.9	1.0	26.3	1,170	1,500	880
19P	0.75	7	1.2	0.6	1.0	20.1	0.3	1.7	25.0	1.1	26.3	1,170	1,500	980
24P	0.75	7	1.2	0.6	1.0	22.9	0.3	1.8	28.0	1.1	26.3	1,170	1,500	1,190
32P	0.75	7	1.2	0.6	1.0	26.1	0.3	1.9	31.4	1.2	26.3	1,170	1,500	1,470
1P	1.0	7	1.4	0.6	1.0	7.2	0.3	1.1	10.9	0.6	19.3	1,050	1,500	210
2P	1.0	7	1.4	0.6	1.0	10.7	0.3	1.3	14.8	0.7	19.3	1,050	1,500	340
3P	1.0	7	1.4	0.6	1.0	11.5	0.3	1.3	15.6	0.8	19.3	1,050	1,500	380
4P	1.0	7	1.4	0.6	1.0	12.2	0.3	1.3	16.3	0.8	19.3	1,050	1,500	430
5P	1.0	7	1.4	0.6	1.0	13.7	0.3	1.4	18.0	0.8	19.3	1,050	1,500	500
6P	1.0	7	1.4	0.6	1.0	14.7	0.3	1.4	19.0	0.9	19.3	1,050	1,500	550
7P	1.0	7	1.4	0.6	1.0	14.7	0.3	1.4	19.0	0.9	19.3	1,050	1,500	580
8P	1.0	7	1.4	0.6	1.0	15.7	0.3	1.5	20.2	0.9	19.3	1,050	1,500	650
10P	1.0	7	1.4	0.6	1.0	17.7	0.3	1.6	22.4	1.0	19.3	1,050	1,500	760
12P	1.0	7	1.4	0.6	1.0	18.5	0.3	1.6	23.2	1.0	19.3	1,050	1,500	840
14P	1.0	7	1.4	0.6	1.0	19.2	0.3	1.6	23.9	1.0	19.3	1,050	1,500	920
16P	1.0	7	1.4	0.6	1.0	20.7	0.3	1.7	25.6	1.1	19.3	1,050	1,500	1,030
19P	1.0	7	1.4	0.6	1.0	21.7	0.3	1.7	26.6	1.1	19.3	1,050	1,500	1,140
24P	1.0	7	1.4	0.6	1.0	24.7	0.3	1.8	29.8	1.2	19.3	1,050	1,500	1,370
32P	1.0	7	1.4	0.6	1.2	29.0	0.3	2.0	34.5	1.3	19.3	1,050	1,500	1,820
1P	1.5	7	1.7	0.7	1.0	8.2	0.3	1.2	12.1	0.7	12.9	1,020	1,500	250
2P	1.5	7	1.7	0.7	1.0	12.4	0.3	1.3	16.5	0.8	12.9	1,020	1,500	400
3P	1.5	7	1.7	0.7	1.0	13.3	0.3	1.4	17.6	0.8	12.9	1,020	1,500	470
4Pi	1.5	7	1.7	0.7	1.0	14.2	0.3	1.4	18.5	0.9	12.9	1,020	1,500	530
5P	1.5	7	1.7	0.7	1.0	16.0	0.3	1.5	20.5	0.9	12.9	1,020	1,500	630
6P	1.5	7	1.7	0.7	1.0	17.2	0.3	1.5	21.7	1.0	12.9	1,020	1,500	700
7P	1.5	7	1.7	0.7	1.0	17.2	0.3	1.5	21.7	1.0	12.9	1,020	1,500	740
8P	1.5	7	1.7	0.7	1.0	18.4	0.3	1.6	23.1	1.0	12.9	1,020	1,500	820
10P	1.5	7	1.7	0.7	1.0	20.8	0.3	1.7	25.7	1.1	12.9	1,020	1,500	980
12P	1.5	7	1.7	0.7	1.0	21.7	0.3	1.7	26.6	1.1	12.9	1,020	1,500	1,090
14P	1.5	7	1.7	0.7	1.0	22.6	0.3	1.8	27.7	1.1	12.9	1,020	1,500	1,210
16P	1.5	7	1.7	0.7	1.0	24.4	0.3	1.8	29.5	1.2	12.9	1,020	1,500	1,340
19P	1.5	7	1.7	0.7	1.0	25.6	0.3	1.9	30.9	1.2	12.9	1,020	1,500	1,510
24P	1.5	7	1.7	0.7	1.2	30.0	0.3	2.1	35.7	1.4	12.9	1,020	1,500	1,940
32P	1.5	7	1.7	0.7	1.2	34.2	0.4	2.2	40.5	1.5	12.9	1,020	1,500	2,510
1P	2.5	7	2.2	0.7	1.0	9.0	0.3	1.2	12.9	0.7	8.02	850	1,500	290
2P	2.5	7	2.2	0.7	1.0	13.8	0.3	1.4	18.1	0.8	8.02	850	1,500	480
3P	2.5	7	2.2	0.7	1.0	14.8	0.3	1.4	19.1	0.9	8.02	850	1,500	570
4P	2.5	7	2.2	0.7	1.0	15.8	0.3	1.5	20.3	0.9	8.02	850	1,500	660
5P	2.5	7	2.2	0.7	1.0	17.8	0.3	1.6	22.5	1.0	8.02	850	1,500	780
6P	2.5	7	2.2	0.7	1.0	19.2	0.3	1.6	23.9	1.0	8.02	850	1,500	880
7P	2.5	7	2.2	0.7	1.0	19.2	0.3	1.6	23.9	1.0	8.02	850	1,500	940
8P	2.5	7	2.2	0.7	1.0	20.6	0.3	1.7	25.5	1.1	8.02	850	1,500	1,050
10P	2.5	7	2.2	0.7	1.0	23.3	0.3	1.8	28.4	1.2	8.02	850	1,500	1,250
12P	2.5	7	2.2	0.7	1.0	24.3	0.3	1.8	29.4	1.2	8.02	850	1,500	1,400
14P	2.5	7	2.2	0.7	1.0	25.3	0.3	1.9	30.6	1.2	8.02	850	1,500	1,560
16P	2.5	7	2.2	0.7	1.2	28.2	0.3	2.0	33.7	1.3	8.02	850	1,500	1,850
19P	2.5	7	2.2	0.7	1.2	29.5	0.3	2.0	35.0	1.4	8.02	850	1,500	2,070
24P	2.5	7	2.2	0.7	1.2	33.6	0.4	2.2	39.9	1.5	8.02	850	1,500	2,630
32P	2.5	7	2.2	0.7	1.4	38.8	0.4	2.4	45.5	1.7	8.02	850	1,500	3,380

250V RFOU(c), 250V RFCU(c), 250V RFBU(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.	mm²	EA	mm	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	7.2	0.3	1.1	10.9	0.6	26.3	1,170	1,500	220
2T	0.75	7	1.2	0.6	1.0	11.0	0.3	1.3	15.1	0.8	26.3	1,170	1,500	350
3T	0.75	7	1.2	0.6	1.0	11.7	0.3	1.3	15.8	0.8	26.3	1,170	1,500	400
4T	0.75	7	1.2	0.6	1.0	12.9	0.3	1.4	17.2	0.8	26.3	1,170	1,500	470
5T	0.75	7	1.2	0.6	1.0	14.3	0.3	1.4	18.6	0.9	26.3	1,170	1,500	540
6T	0.75	7	1.2	0.6	1.0	16.1	0.3	1.5	20.6	0.9	26.3	1,170	1,500	630
7T	0.75	7	1.2	0.6	1.0	16.1	0.3	1.5	20.6	0.9	26.3	1,170	1,500	670
8T	0.75	7	1.2	0.6	1.0	17.3	0.3	1.5	21.8	1.0	26.3	1,170	1,500	730
10T	0.75	7	1.2	0.6	1.0	19.6	0.3	1.6	24.3	1.0	26.3	1,170	1,500	870
12T	0.75	7	1.2	0.6	1.0	20.8	0.3	1.7	25.7	1.1	26.3	1,170	1,500	980
14T	0.75	7	1.2	0.6	1.0	21.7	0.3	1.7	26.6	1.1	26.3	1,170	1,500	1,070
16T	0.75	7	1.2	0.6	1.0	23.1	0.3	1.8	28.2	1.1	26.3	1,170	1,500	1,190
19T	0.75	7	1.2	0.6	1.0	25.0	0.3	1.9	30.3	1.2	26.3	1,170	1,500	1,360
24T	0.75	7	1.2	0.6	1.2	28.5	0.3	2.0	34.0	1.3	26.3	1,170	1,500	1,710
32T	0.75	7	1.2	0.6	1.2	32.7	0.4	2.2	39.0	1.5	26.3	1,170	1,500	2,240
1T	1.0	7	1.4	0.6	1.0	7.6	0.3	1.2	11.5	0.6	19.3	1,050	1,500	240
2T	1.0	7	1.4	0.6	1.0	11.7	0.3	1.3	15.8	0.8	19.3	1,050	1,500	390
3T	1.0	7	1.4	0.6	1.0	12.5	0.3	1.4	16.8	0.8	19.3	1,050	1,500	460
4T	1.0	7	1.4	0.6	1.0	13.7	0.3	1.4	18.0	0.8	19.3	1,050	1,500	530
5T	1.0	7	1.4	0.6	1.0	15.2	0.3	1.5	19.7	0.9	19.3	1,050	1,500	620
6T	1.0	7	1.4	0.6	1.0	17.2	0.3	1.5	21.7	1.0	19.3	1,050	1,500	710
7T	1.0	7	1.4	0.6	1.0	17.2	0.3	1.5	21.7	1.0	19.3	1,050	1,500	760
8T	1.0	7	1.4	0.6	1.0	18.5	0.3	1.6	23.2	1.0	19.3	1,050	1,500	840
10T	1.0	7	1.4	0.6	1.0	21.0	0.3	1.7	25.9	1.1	19.3	1,050	1,500	1,000
12T	1.0	7	1.4	0.6	1.0	22.2	0.3	1.7	27.1	1.1	19.3	1,050	1,500	1,120
14T	1.0	7	1.4	0.6	1.0	23.2	0.3	1.8	28.3	1.1	19.3	1,050	1,500	1,250
16T	1.0	7	1.4	0.6	1.0	24.8	0.3	1.8	29.9	1.2	19.3	1,050	1,500	1,380
19T	1.0	7	1.4	0.6	1.0	26.8	0.3	1.9	32.1	1.3	19.3	1,050	1,500	1,580
24T	1.0	7	1.4	0.6	1.2	30.6	0.4	2.1	36.7	1.4	19.3	1,050	1,500	2,090
32T	1.0	7	1.4	0.6	1.2	35.1	0.4	2.3	41.6	1.5	19.3	1,050	1,500	2,620
1T	1.5	7	1.7	0.7	1.0	8.7	0.3	1.2	12.6	0.7	12.9	1,020	1,500	290
2T	1.5	7	1.7	0.7	1.0	13.7	0.3	1.4	18.0	0.8	12.9	1,020	1,500	480
3T	1.5	7	1.7	0.7	1.0	14.6	0.3	1.4	18.9	0.9	12.9	1,020	1,500	570
4T	1.5	7	1.7	0.7	1.0	16.1	0.3	1.5	20.6	0.9	12.9	1,020	1,500	670
5T	1.5	7	1.7	0.7	1.0	17.9	0.3	1.6	22.6	1.0	12.9	1,020	1,500	790
6T	1.5	7	1.7	0.7	1.0	20.3	0.3	1.7	25.2	1.1	12.9	1,020	1,500	930
7T	1.5	7	1.7	0.7	1.0	20.3	0.3	1.7	25.2	1.1	12.9	1,020	1,500	990
8T	1.5	7	1.7	0.7	1.0	21.8	0.3	1.7	26.7	1.1	12.9	1,020	1,500	1,090
10T	1.5	7	1.7	0.7	1.0	24.8	0.3	1.8	29.9	1.2	12.9	1,020	1,500	1,310
12T	1.5	7	1.7	0.7	1.0	26.3	0.3	1.9	31.6	1.2	12.9	1,020	1,500	1,490
14T	1.5	7	1.7	0.7	1.2	28.3	0.3	2.0	33.8	1.3	12.9	1,020	1,500	1,750
16T	1.5	7	1.7	0.7	1.2	30.1	0.4	2.1	36.2	1.4	12.9	1,020	1,500	2,030
19T	1.5	7	1.7	0.7	1.2	32.6	0.4	2.2	38.9	1.5	12.9	1,020	1,500	2,320
24T	1.5	7	1.7	0.7	1.2	36.2	0.4	2.3	42.7	1.6	12.9	1,020	1,500	2,770
32T	1.5	7	1.7	0.7	1.4	42.0	0.4	2.5	48.9	1.8	12.9	1,020	1,500	3,560
1T	2.5	7	2.2	0.7	1.0	9.6	0.3	1.2	13.5	0.7	8.02	850	1,500	340
2T	2.5	7	2.2	0.7	1.0	15.2	0.3	1.5	19.7	0.9	8.02	850	1,500	590
3T	2.5	7	2.2	0.7	1.0	16.3	0.3	1.5	20.8	0.9	8.02	850	1,500	710
4T	2.5	7	2.2	0.7	1.0	18.0	0.3	1.6	22.7	1.0	8.02	850	1,500	850
5T	2.5	7	2.2	0.7	1.0	20.1	0.3	1.7	25.0	1.1	8.02	850	1,500	1,010
6T	2.5	7	2.2	0.7	1.0	22.8	0.3	1.8	27.9	1.1	8.02	850	1,500	1,180
7T	2.5	7	2.2	0.7	1.0	22.8	0.3	1.8	27.9	1.1	8.02	850	1,500	1,270
8T	2.5	7	2.2	0.7	1.0	24.5	0.3	1.8	29.6	1.2	8.02	850	1,500	1,410
10T	2.5	7	2.2	0.7	1.2	28.8	0.3	2.0	34.3	1.3	8.02	850	1,500	1,800
12T	2.5	7	2.2	0.7	1.2	30.5	0.4	2.1	36.6	1.4	8.02	850	1,500	2,140
14T	2.5	7	2.2	0.7	1.2	31.8	0.4	2.1	37.9	1.4	8.02	850	1,500	2,370
16T	2.5	7	2.2	0.7	1.2	33.9	0.4	2.2	40.2	1.5	8.02	850	1,500	2,640
19T	2.5	7	2.2	0.7	1.2	36.7	0.4	2.3	43.2	1.6	8.02	850	1,500	3,020
24T	2.5	7	2.2	0.7	1.4	41.2	0.4	2.5	48.1	1.7	8.02	850	1,500	3,730
32T	2.5	7	2.2	0.7	1.4	47.4	0.4	2.8	54.9	1.9	8.02	850	1,500	4,770

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