

RFOU VFD (0.6/1kV, 1.8/3kV)



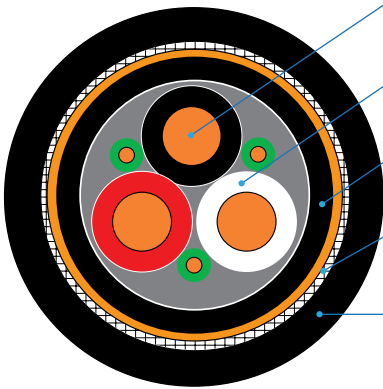
CABLE DESIGNATION

0.6/1KV(1.8/3KV) RFOU(VFD)

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 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

CONSTRUCTION



Sectional view

Conductor

Stranded tinned annealed copper wires as per IEC 60228, Class 2

Insulation

EPR as per IEC 60092-360

Inner covering

Flame retardant halogen free thermoset compound

Armor (Screen)

- Braid of tinned annealed copper wire
- A suitable separator tape(s) may be applied under/over the armor

Sheath

- SHF2 as per IEC 60092-360
- Option : NEK 606 Category a,b,c,d Mud or oil resistant
- Outer sheath color : Black

Core identification

3C+3E : Off-white, Black, Red + G/Y

Cabling

- Insulated cores 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

Note. 1. Flexible cable (Class5 Conductor) can be supplied
2. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

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0.6/1KV(1.8/3KV) RFOU(VFD), 1.8/3KV RFOU(VFD)

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

No. of Cores	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
	Nominal Area	Min. No. of wires	Max. dia.						Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3C	25	7	6.6	2.2	1.0	25.7	0.3	1.9	31.7	1.6	0.734	830	6,500	1,970
+3E	6	7	3.3	1.0							3.110	790	3,500	
3C	35	7	7.9	2.2	1.2	28.7	0.3	2.0	34.9	1.7	0.529	730	6,500	2,420
+3E	6	7	3.3	1.0							3.110	790	3,500	
3C	50	19	9.1	2.2	1.2	31.5	0.4	2.2	38.5	1.8	0.391	640	6,500	3,160
+3E	10	7	4.2	1.0							1.840	640	3,500	
3C	70	19	11.0	2.2	1.2	35.4	0.4	2.3	42.6	2.0	0.270	550	6,500	4,150
+3E	16	7	5.3	1.0							1.160	530	3,500	
3C	95	19	12.9	2.4	1.4	40.7	0.4	2.5	48.3	2.2	0.195	510	6,500	5,330
+3E	16	7	5.3	1.0							1.160	530	3,500	
3C	120	37	14.5	2.4	1.4	44.2	0.4	2.7	52.2	2.4	0.154	460	6,500	6,540
+3E	25	7	6.6	1.2							0.734	510	3,500	
3C	150	37	16.2	2.4	1.4	47.6	0.4	2.8	55.8	2.5	0.126	420	6,500	7,590
+3E	25	7	6.6	1.2							0.734	510	3,500	
3C	185	37	18.0	2.4	1.6	51.9	0.4	3.0	60.5	2.7	0.1000	380	6,500	9,230
+3E	35	7	7.9	1.2							0.5290	440	3,500	
3C	240	61	20.6	2.4	1.6	57.7	0.4	3.2	66.7	3.0	0.0762	340	6,500	11,690
+3E	50	19	9.1	1.4							0.3910	440	3,500	