

Halogen free flame retardant or/and mud resistant communication and instrumentaion cable



RFOU(i)

NEK TS 606 Type:
S1---Non mud resistant
S1/S5---Mud resistant

Rated voltage
250V---S1, S1/S5

Operating temperature:90℃

Standards applied

- NEK TS 606 – Design
- IEC 60092-376 – Design
- IEC 60228 Class2 – Conductor
- IEC 60092-360 – Insulation、Sheath
- IEC 60332-1 – Flame Retardant
- IEC 60332-3-22 – Flame Retardant
- IEC 60754 – Halogen Free
- IEC 61034 – Low Smoke

Application

Fixed installation for communication, instrumentation, control and alarm systems in both EX–and safe areas. Meets the Mud resistant requirements in NEK 606.

Construction

Components	Code	Material/Description
Conductor		Stranded tinned annealed copper (STC), IEC 60228 Class 2
Insulation	R	EPR, IEC 60092-360
Pair/triple twisting with individual screen		Color coded cores twisted pairs/triples which are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape over the screen. Pairs/triples are identified by numbers printed on insulation.
Inner covering	F	Halogen-free flame retardant compound
Armor	O	Tinned copper wire braid (TCWB)
Outer sheath	U	Halogen-free flame retardant or/and mud resistant thermoset compound (SHF2 or SHF Mud)
Outer sheath color		Grey or Blue

Note: Flexible cable with Class 5 conductor available upon request.

RFOU(i) 250V----S1, S1/S5

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1P x 0.75	10.9	0.6	157
2P x 0.75	16.6	0.9	320
3P x 0.75	17.6	0.9	382
4P x 0.75	18.9	1.0	443
5P x 0.75	20.6	1.1	517
7P x 0.75	22.4	1.1	641
10P x 0.75	28.0	1.3	897
12P x 0.75	29.0	1.3	987
14P x 0.75	30.5	1.5	1118
16P x 0.75	32.2	1.5	1224
19P x 0.75	34.1	1.5	1403
24P x 0.75	40.4	1.9	1857
27P x 0.75	41.1	1.9	2009
30P x 0.75	42.9	1.9	2176
33P x 0.75	44.3	1.9	2350
37P x 0.75	46.1	2.1	2541
43P x 0.75	49.8	2.1	2932
48P x 0.75	52.7	2.3	3238
1P x 1.0	11.3	0.6	175
2P x 1.0	17.5	0.9	356
3P x 1.0	18.3	1.0	415
4P x 1.0	20.1	1.1	494
5P x 1.0	21.8	1.1	579
7P x 1.0	23.6	1.1	709
10P x 1.0	29.6	1.3	992
12P x 1.0	30.7	1.5	1127
14P x 1.0	32.3	1.5	1243
16P x 1.0	34.3	1.5	1398
19P x 1.0	36.2	1.7	1686
24P x 1.0	42.9	1.9	2114
27P x 1.0	43.7	1.9	2266
30P x 1.0	45.3	2.1	2457
33P x 1.0	46.9	2.1	2656
37P x 1.0	48.9	2.1	2898
43P x 1.0	53.0	2.3	3341
48P x 1.0	56.0	2.5	3692
1P x 1.5	12.5	0.7	204
2P x 1.5	19.3	1.0	417
3P x 1.5	20.6	1.1	503
4P x 1.5	22.4	1.1	616
5P x 1.5	24.6	1.1	722
7P x 1.5	26.7	1.3	889
10P x 1.5	34.0	1.5	1277

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1T x 0.75	11.3	0.6	182
2T x 0.75	18.1	1.0	382
3T x 0.75	19.0	1.0	449
4T x 0.75	20.8	1.1	538
5T x 0.75	22.8	1.1	641
7T x 0.75	24.7	1.1	788
10T x 0.75	31.3	1.5	1118
12T x 0.75	32.2	1.5	1240
14T x 0.75	34.0	1.5	1405
16T x 0.75	35.7	1.7	1560
19T x 0.75	38.4	1.7	1881
24T x 0.75	44.7	1.9	2354
27T x 0.75	45.8	2.1	2530
30T x 0.75	47.3	2.1	2747
33T x 0.75	49.4	2.1	2992
37T x 0.75	51.5	2.3	3267
43T x 0.75	55.7	2.5	3769
48T x 0.75	58.7	2.5	4135
1T x 1.0	12.0	0.6	197
2T x 1.0	18.9	1.0	414
3T x 1.0	20.2	1.1	503
4T x 1.0	22.0	1.1	604
5T x 1.0	24.0	1.1	709
7T x 1.0	26.2	1.3	890
10T x 1.0	33.2	1.5	1279
12T x 1.0	34.3	1.5	1422
14T x 1.0	35.9	1.7	1594
16T x 1.0	38.6	1.7	1883
19T x 1.0	40.7	1.9	2115
24T x 1.0	47.5	2.1	2673
27T x 1.0	48.8	2.1	2901
30T x 1.0	50.4	2.3	3152
33T x 1.0	52.6	2.3	3432
37T x 1.0	54.8	2.3	3756
43T x 1.0	59.3	2.5	4302
48T x 1.0	62.7	3.0	4754
1T x 1.5	13.0	0.7	235
2T x 1.5	21.4	1.1	517
3T x 1.5	22.7	1.1	631
4T x 1.5	24.8	1.1	774
5T x 1.5	27.0	1.3	898
7T x 1.5	29.4	1.3	1118
10T x 1.5	38.3	1.7	1714

RFOU(i) 250V----S1, S1/S5

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
12P x 1.5	35.0	1.5	1415
14P x 1.5	37.6	1.7	1691
16P x 1.5	39.6	1.7	1874
19P x 1.5	41.5	1.9	2119
24P x 1.5	48.8	2.1	2676
27P x 1.5	49.8	2.1	2902
30P x 1.5	51.8	2.3	3146
33P x 1.5	53.8	2.3	3400
37P x 1.5	56.2	2.5	3742
43P x 1.5	60.8	3.0	4312
48P x 1.5	64.4	3.0	4761
1P x 2.5	13.3	0.7	239
2P x 2.5	21.2	1.1	512
3P x 2.5	22.3	1.1	625
4P x 2.5	24.5	1.1	754
5P x 2.5	26.7	1.3	889
7P x 2.5	29.0	1.3	1109
10P x 2.5	37.8	1.7	1697
12P x 2.5	39.0	1.7	1906
14P x 2.5	40.9	1.9	2116
16P x 2.5	43.4	1.9	2373
19P x 2.5	45.7	2.1	2699
24P x 2.5	53.7	2.3	3432
27P x 2.5	54.9	2.3	3756
30P x 2.5	57.0	2.5	4058
33P x 2.5	59.2	2.5	4392
37P x 2.5	61.8	3.0	4840
43P x 2.5	67.3	3.0	5607
48P x 2.5	71.1	3.0	6231

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
12T x 1.5	39.6	1.7	1925
14T x 1.5	41.4	1.9	2156
16T x 1.5	43.9	1.9	2418
19T x 1.5	46.3	2.1	2721
24T x 1.5	54.6	2.3	3516
27T x 1.5	55.7	2.5	3789
30T x 1.5	57.7	2.5	4121
33T x 1.5	60.2	3.0	4489
37T x 1.5	62.7	3.0	4941
43T x 1.5	68.1	3.0	5689
48T x 1.5	72.2	3.0	6316
1T x 2.5	14.6	0.8	322
2T x 2.5	23.3	1.1	631
3T x 2.5	24.8	1.1	796
4T x 2.5	27.1	1.3	954
5T x 2.5	29.5	1.3	1132
7T x 2.5	32.3	1.5	1445
10T x 2.5	42.3	1.9	2210
12T x 2.5	43.6	1.9	2473
14T x 2.5	45.8	2.1	2783
16T x 2.5	48.5	2.1	3128
19T x 2.5	51.3	2.3	3593
24T x 2.5	60.3	3.0	4585
27T x 2.5	61.7	3.0	4969
30T x 2.5	64.1	3.0	5445
33T x 2.5	66.9	3.0	5932
37T x 2.5	69.6	3.0	6542
43T x 2.5	75.8	3.0	7571
48T x 2.5	80.1	3.0	8405

Example
Type: RFOU(i) S1/S5
Size: 7X2X0.75mm²



Example
Type: RFOU(i) S1/S5
Size: 7X3X0.75mm²



Halogen free flame retardant or/and mud resistant communication and instrumentaion cable



RFOU(C)

NEK TS 606 Type:
S2---Non mud resistant
S2/S6---Mud resistant

Rated voltage
250V---S2, S2/S6

Operating temperature:90°C

Standards applied

NEK TS 606	– Design
IEC 60092-376	– Design
IEC 60228 Class2	– Conductor
IEC 60092-360	– Insulation、 Sheath
IEC 60332-1	– Flame Retardant
IEC 60332-3-22	– Flame Retardant
IEC 60754	– Halogen Free
IEC 61034	– Low Smoke

Application

Fixed installation for communication, instrumentation, control and alarm systems in both EX–and safe areas. Meets the Mud resistant requirements in NEK 606.

Construction

Components	Code	Material/Description
Conductor		Stranded tinned annealed copper (STC), IEC 60228 Class 2
Insulation	R	EPR, IEC 60092-360
Twisting and cabling		Color coded cores twisted pairs/triples.Pairs/triples are layed up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbers printed directly on the insulation.
Inner covering	F	Halogen-free flame retardant compound
Aarmor	O	Tinned copper wire braid (TCWB)
Outer sheath	U	Halogen-free flame retardant or/and mud resistant thermoset compound (SHF2 or SHF Mud)
Outer sheath color		Grey or Blue

Note: Flexible cable with Class 5 conductor available upon request.

RFOU(c) 250V----S2, S2/S6

No.of pairs/triples & Cross section	Overall diameter		Approx. weight
	Nom.	±	
mm ²	mm		kg/km
1P x 0.75	10.9	0.6	157
2P x 0.75	15.4	0.8	279
3P x 0.75	16.1	0.9	319
4P x 0.75	17.3	0.9	375
5P x 0.75	18.6	1.0	424
7P x 0.75	20.1	1.1	512
10P x 0.75	24.8	1.1	713
12P x 0.75	25.7	1.3	778
14P x 0.75	26.9	1.3	867
16P x 0.75	28.2	1.3	960
19P x 0.75	29.6	1.3	1068
24P x 0.75	34.5	1.5	1345
27P x 0.75	35.1	1.7	1438
30P x 0.75	36.5	1.7	1665
33P x 0.75	38.4	1.7	1798
37P x 0.75	40.2	1.9	1955
43P x 0.75	43.2	1.9	2215
48P x 0.75	45.5	2.1	2429
1P x 1.0	11.3	0.6	168
2P x 1.0	16.0	0.8	305
3P x 1.0	16.8	0.9	359
4P x 1.0	18.1	1.0	415
5P x 1.0	19.4	1.0	483
7P x 1.0	21.1	1.1	575
10P x 1.0	26.5	1.3	815
12P x 1.0	27.2	1.3	895
14P x 1.0	28.6	1.3	1001
16P x 1.0	29.9	1.3	1095
19P x 1.0	31.5	1.5	1239
24P x 1.0	36.9	1.7	1664
27P x 1.0	38.0	1.7	1777
30P x 1.0	39.8	1.7	1945
33P x 1.0	41.1	1.9	2102
37P x 1.0	42.7	1.9	2269
43P x 1.0	46.2	2.1	2597
48P x 1.0	48.6	2.1	2848
1P x 1.5	12.5	0.7	198
2P x 1.5	17.9	0.9	371
3P x 1.5	18.7	1.0	435
4P x 1.5	20.4	1.1	518
5P x 1.5	22.2	1.1	616
7P x 1.5	23.9	1.1	741
10P x 1.5	30.0	1.3	1035

No.of pairs/triples & Cross section	Overall diameter		Approx. weight
	Nom.	±	
mm ²	mm		kg/km
1T x 0.75	11.3	0.6	182
2T x 0.75	16.6	0.9	339
3T x 0.75	17.6	0.9	394
4T x 0.75	18.9	1.0	457
5T x 0.75	20.5	1.1	533
7T x 0.75	22.0	1.1	642
10T x 0.75	27.7	1.3	922
12T x 0.75	28.6	1.3	1019
14T x 0.75	29.9	1.3	1125
16T x 0.75	31.5	1.5	1252
19T x 0.75	33.2	1.5	1434
24T x 0.75	39.4	1.7	1914
27T x 0.75	40.4	1.9	2052
30T x 0.75	41.6	1.9	2227
33T x 0.75	43.3	1.9	2386
37T x 0.75	44.7	1.9	2608
43T x 0.75	48.6	2.1	2987
48T x 0.75	51.2	2.3	3278
1T x 1.0	12.0	0.6	191
2T x 1.0	17.5	0.9	371
3T x 1.0	18.4	1.0	437
4T x 1.0	20.1	1.1	521
5T x 1.0	21.5	1.1	600
7T x 1.0	23.5	1.1	752
10T x 1.0	29.4	1.3	1049
12T x 1.0	30.2	1.5	1181
14T x 1.0	31.7	1.5	1308
16T x 1.0	33.4	1.5	1472
19T x 1.0	35.4	1.7	1672
24T x 1.0	41.9	1.9	2222
27T x 1.0	42.9	1.9	2391
30T x 1.0	44.2	1.9	2596
33T x 1.0	46.2	2.1	2810
37T x 1.0	47.7	2.1	3073
43T x 1.0	51.9	2.3	3548
48T x 1.0	54.8	2.3	3922
1T x 1.5	13.0	0.7	228
2T x 1.5	19.4	1.0	458
3T x 1.5	20.7	1.1	547
4T x 1.5	22.8	1.1	670
5T x 1.5	24.5	1.1	774
7T x 1.5	26.7	1.3	978
10T x 1.5	33.6	1.5	1385

RFOU(c) 250V----S2, S2/S6

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
	mm		
12P x 1.5	30.8	1.5	1162
14P x 1.5	32.6	1.5	1301
16P x 1.5	34.4	1.5	1445
19P x 1.5	36.2	1.7	1744
24P x 1.5	43.0	1.9	2183
27P x 1.5	43.8	1.9	2366
30P x 1.5	45.6	2.1	2565
33P x 1.5	47.2	2.1	2774
37P x 1.5	49.0	2.1	3006
43P x 1.5	53.1	2.3	3466
48P x 1.5	56.2	2.5	3831
1P x 2.5	13.3	0.7	233
2P x 2.5	19.2	1.0	442
3P x 2.5	20.5	1.1	539
4P x 2.5	22.2	1.1	661
5P x 2.5	24.1	1.1	765
7P x 2.5	26.3	1.3	965
10P x 2.5	33.0	1.5	1367
12P x 2.5	34.2	1.5	1525
14P x 2.5	35.9	1.7	1820
16P x 2.5	38.6	1.7	2040
19P x 2.5	40.7	1.9	2296
24P x 2.5	47.3	2.1	2901
27P x 2.5	48.4	2.1	3133
30P x 2.5	50.0	2.1	3411
33P x 2.5	52.2	2.3	3721
37P x 2.5	54.4	2.3	4076
43P x 2.5	59.1	2.5	4698
48P x 2.5	62.2	3.0	5171

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
	mm		
12T x 1.5	34.9	1.5	1562
14T x 1.5	36.7	1.7	1842
16T x 1.5	39.5	1.7	2066
19T x 1.5	41.3	1.9	2347
24T x 1.5	48.3	2.1	2939
27T x 1.5	49.3	2.1	3197
30T x 1.5	51.3	2.3	3479
33T x 1.5	53.1	2.3	3765
37T x 1.5	55.3	2.5	4153
43T x 1.5	60.1	3.0	4789
48T x 1.5	63.5	3.0	5292
1T x 2.5	14.6	0.8	315
2T x 2.5	21.2	1.1	555
3T x 2.5	22.7	1.1	702
4T x 2.5	24.6	1.1	842
5T x 2.5	26.9	1.3	1012
7T x 2.5	29.2	1.3	1277
10T x 2.5	37.7	1.7	1916
12T x 2.5	39.0	1.7	2188
14T x 2.5	41.0	1.9	2444
16T x 2.5	43.2	1.9	2726
19T x 2.5	45.7	2.1	3137
24T x 2.5	53.6	2.3	3982
27T x 2.5	54.7	2.3	4351
30T x 2.5	56.9	2.5	4743
33T x 2.5	59.1	2.5	5145
37T x 2.5	61.6	3.0	5684
43T x 2.5	66.7	3.0	6552
48T x 2.5	70.6	3.0	7253

Example
Type: RFOU(C) S2/S6
Size: 7X2X0.75mm²



Example
Type: RFOU(C) S2/S6
Size: 7X3X0.75mm²

