

Halogen free fire resistant or/and mud resistant communication and instrumentaion cable



BFOU(i)

NEK TS 606 Type:
 S3---Non mud resistant
 S3/S7---Mud resistant

Rated voltage
 250V---S3, S3/S7

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 60331 – Fire resistant
- 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	B	Mica glass tape(MGT)+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.

BFOU(i) 250V----S3, S3/S7

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1P x 0.75	12.9	0.7	203
2P x 0.75	20.3	1.1	427
3P x 0.75	21.5	1.1	506
4P x 0.75	23.5	1.1	603
5P x 0.75	25.7	1.3	714
7P x 0.75	27.8	1.3	870
10P x 0.75	35.4	1.7	1233
12P x 0.75	37.5	1.7	1481
14P x 0.75	39.4	1.7	1642
16P x 0.75	41.3	1.9	1817
19P x 0.75	43.7	1.9	2042
24P x 0.75	51.4	2.3	2605
27P x 0.75	52.4	2.3	2809
30P x 0.75	54.5	2.3	3036
33P x 0.75	56.6	2.5	3273
37P x 0.75	58.9	2.5	3565
43P x 0.75	63.9	3.0	4131
48P x 0.75	67.8	3.0	4553
1P x 1.0	13.1	0.7	212
2P x 1.0	20.7	1.1	445
3P x 1.0	21.9	1.1	533
4P x 1.0	24.1	1.1	648
5P x 1.0	26.2	1.3	756
7P x 1.0	28.5	1.3	927
10P x 1.0	36.6	1.7	1433
12P x 1.0	38.2	1.7	1575
14P x 1.0	40.1	1.9	1752
16P x 1.0	42.5	1.9	1960
19P x 1.0	44.6	1.9	2209
24P x 1.0	52.5	2.3	2811
27P x 1.0	53.7	2.3	3009
30P x 1.0	55.7	2.5	3286
33P x 1.0	57.8	2.5	3546
37P x 1.0	60.3	3.0	3896
43P x 1.0	65.7	3.0	4510
48P x 1.0	69.4	3.0	4972
1P x 1.5	14.8	0.8	283
2P x 1.5	22.8	1.1	534
3P x 1.5	24.2	1.1	642
4P x 1.5	26.5	1.3	768
5P x 1.5	28.8	1.3	901
7P x 1.5	31.6	1.5	1124
10P x 1.5	40.9	1.9	1710

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1T x 0.75	13.5	0.7	231
2T x 0.75	22.3	1.1	523
3T x 0.75	23.7	1.1	616
4T x 0.75	26.0	1.3	751
5T x 0.75	28.4	1.3	881
7T x 0.75	30.8	1.5	1097
10T x 0.75	40.2	1.9	1669
12T x 0.75	41.4	1.9	1860
14T x 0.75	43.7	1.9	2094
16T x 0.75	46.1	2.1	2295
19T x 0.75	48.8	2.1	2615
24T x 0.75	57.3	2.5	3354
27T x 0.75	58.5	2.5	3596
30T x 0.75	60.8	3.0	3927
33T x 0.75	63.4	3.0	4268
37T x 0.75	66.1	3.0	4686
43T x 0.75	71.9	3.0	5418
48T x 0.75	76.2	3.0	6011
1T x 1.0	13.7	0.7	282
2T x 1.0	22.9	1.1	549
3T x 1.0	24.4	1.1	666
4T x 1.0	26.6	1.3	799
5T x 1.0	29.0	1.3	939
7T x 1.0	31.7	1.5	1175
10T x 1.0	41.2	1.9	1802
12T x 1.0	42.8	1.9	2014
14T x 1.0	44.9	1.9	2247
16T x 1.0	47.2	2.1	2494
19T x 1.0	50.0	2.1	2844
24T x 1.0	58.9	2.5	3613
27T x 1.0	60.3	3.0	3944
30T x 1.0	62.7	3.0	4306
33T x 1.0	65.2	3.0	4620
37T x 1.0	67.9	3.0	5076
43T x 1.0	74.0	3.0	5906
48T x 1.0	78.5	3.0	6551
1T x 1.5	15.5	0.8	325
2T x 1.5	25.1	1.3	664
3T x 1.5	26.7	1.3	795
4T x 1.5	29.2	1.3	961
5T x 1.5	32.1	1.5	1148
7T x 1.5	35.1	1.7	1444
10T x 1.5	45.7	2.1	2196

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No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
mm			kg/km
12P x 1.5	42.6	1.9	1926
14P x 1.5	44.5	1.9	2146
16P x 1.5	46.9	2.1	2379
19P x 1.5	49.6	2.1	2709
24P x 1.5	58.6	2.5	3444
27P x 1.5	59.9	2.5	3722
30P x 1.5	62.2	3.0	4034
33P x 1.5	64.8	3.0	4387
37P x 1.5	67.5	3.0	4817
43P x 1.5	73.5	3.0	5606
48P x 1.5	78.1	3.0	6213
1P x 2.5	15.8	0.8	326
2P x 2.5	24.8	1.1	646
3P x 2.5	26.4	1.3	771
4P x 2.5	28.8	1.3	931
5P x 2.5	31.6	1.5	1111
7P x 2.5	34.6	1.5	1397
10P x 2.5	45.0	1.9	2126
12P x 2.5	46.5	2.1	2360
14P x 2.5	49.0	2.1	2665
16P x 2.5	51.9	2.3	3009
19P x 2.5	54.9	2.3	3433
24P x 2.5	64.7	3.0	4351
27P x 2.5	66.2	3.0	4749
30P x 2.5	68.9	3.0	5184
33P x 2.5	71.7	3.0	5634
37P x 2.5	75.0	3.0	6190
43P x 2.5	81.5	3.0	7148
48P x 2.5	86.5	3.0	7964

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
mm			kg/km
12T x 1.5	47.1	2.1	2465
14T x 1.5	49.7	2.1	2781
16T x 1.5	52.6	2.3	3111
19T x 1.5	55.7	2.5	3554
24T x 1.5	65.8	3.0	4567
27T x 1.5	67.4	3.0	4917
30T x 1.5	70.0	3.0	5370
33T x 1.5	73.0	3.0	5839
37T x 1.5	76.1	3.0	6456
43T x 1.5	82.7	3.0	7452
48T x 1.5	87.7	3.0	8297
1T x 2.5	16.6	0.9	381
2T x 2.5	27.4	1.3	780
3T x 2.5	29.1	1.3	966
4T x 2.5	32.1	1.5	1193
5T x 2.5	35.3	1.7	1428
7T x 2.5	39.4	1.7	1922
10T x 2.5	50.4	2.3	2757
12T x 2.5	52.2	2.3	3134
14T x 2.5	55.1	2.5	3540
16T x 2.5	58.1	2.5	3938
19T x 2.5	61.6	3.0	4513
24T x 2.5	73.0	3.0	5815
27T x 2.5	74.8	3.0	6355
30T x 2.5	77.9	3.0	6946
33T x 2.5	81.1	3.0	7551
37T x 2.5	84.5	3.0	8304
43T x 2.5	91.8	3.0	9588
48T x 2.5	97.0	3.0	10626

Example
Type: BFOU(I) S3/S7
Size: 7X2X0.75mm²



Example
Type: BFOU(I) S3/S7
Size: 7X3X0.75mm²



Halogen free fire resistant or/and mud resistant communication and instrumentaion cable



BFOU(c)

NEK TS 606 Type:
S4---Non mud resistant
S4/S8---Mud resistant

Rated voltage
250V---S4, S4/S8

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 60331 – Fire resistant
- 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	B	Mica glass tape(MGT)+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
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.

BFOU(c) 250V----S4, S4/S8

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1P x 0.75	12.9	0.7	203
2P x 0.75	18.5	1.0	377
3P x 0.75	19.4	1.0	442
4P x 0.75	21.4	1.1	520
5P x 0.75	23.2	1.1	603
7P x 0.75	25.1	1.3	739
10P x 0.75	31.7	1.5	1026
12P x 0.75	32.6	1.5	1124
14P x 0.75	34.4	1.5	1266
16P x 0.75	36.4	1.7	1505
19P x 0.75	38.8	1.7	1686
24P x 0.75	45.4	2.1	2103
27P x 0.75	46.2	2.1	2245
30P x 0.75	47.9	2.1	2427
33P x 0.75	49.8	2.1	2641
37P x 0.75	51.9	2.3	2896
43P x 0.75	56.4	2.5	3300
48P x 0.75	59.3	2.5	3613
1P x 1.0	13.1	0.7	213
2P x 1.0	18.8	1.0	395
3P x 1.0	20.1	1.1	468
4P x 1.0	21.8	1.1	553
5P x 1.0	23.7	1.1	642
7P x 1.0	25.8	1.3	793
10P x 1.0	32.4	1.5	1102
12P x 1.0	33.5	1.5	1246
14P x 1.0	35.2	1.7	1369
16P x 1.0	37.9	1.7	1623
19P x 1.0	39.8	1.7	1825
24P x 1.0	46.3	2.1	2281
27P x 1.0	47.2	2.1	2464
30P x 1.0	49.2	2.1	2665
33P x 1.0	51.3	2.3	2902
37P x 1.0	53.3	2.3	3159
43P x 1.0	57.6	2.5	3636
48P x 1.0	60.9	3.0	4009
1P x 1.5	14.8	0.8	283
2P x 1.5	20.8	1.1	466
3P x 1.5	22.1	1.1	559
4P x 1.5	24.2	1.1	678
5P x 1.5	26.3	1.3	791
7P x 1.5	28.5	1.3	968
10P x 1.5	36.3	1.7	1486

No.of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
1T x 0.75	13.5	0.7	232
2T x 0.75	20.5	1.1	458
3T x 0.75	21.7	1.1	546
4T x 0.75	23.7	1.1	649
5T x 0.75	25.9	1.3	771
7T x 0.75	27.9	1.3	941
10T x 0.75	35.5	1.7	1328
12T x 0.75	37.5	1.7	1592
14T x 0.75	39.1	1.7	1771
16T x 0.75	41.2	1.9	1959
19T x 0.75	43.6	1.9	2209
24T x 0.75	51.2	2.3	2810
27T x 0.75	52.2	2.3	3036
30T x 0.75	54.3	2.3	3291
33T x 0.75	56.4	2.5	3552
37T x 0.75	58.4	2.5	3872
43T x 0.75	63.6	3.0	4484
48T x 0.75	67.3	3.0	4947
1T x 1.0	13.7	0.7	282
2T x 1.0	20.9	1.1	482
3T x 1.0	22.1	1.1	592
4T x 1.0	24.3	1.1	708
5T x 1.0	26.4	1.3	828
7T x 1.0	28.6	1.3	1019
10T x 1.0	36.7	1.7	1562
12T x 1.0	38.3	1.7	1723
14T x 1.0	40.2	1.9	1923
16T x 1.0	42.5	1.9	2153
19T x 1.0	44.6	1.9	2433
24T x 1.0	52.3	2.3	3092
27T x 1.0	53.5	2.3	3324
30T x 1.0	55.5	2.5	3634
33T x 1.0	57.7	2.5	3924
37T x 1.0	60.1	3.0	4318
43T x 1.0	65.2	3.0	4934
48T x 1.0	69.1	3.0	5510
1T x 1.5	15.5	0.8	326
2T x 1.5	23.1	1.1	588
3T x 1.5	24.5	1.1	714
4T x 1.5	26.8	1.3	860
5T x 1.5	29.1	1.3	1011
7T x 1.5	31.9	1.5	1272
10T x 1.5	41.2	1.9	1933

BFOU(c) 250V----S4, S4/S8

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
mm			kg/km
12P x 1.5	38.1	1.7	1636
14P x 1.5	40.0	1.7	1822
16P x 1.5	42.3	1.9	2035
19P x 1.5	44.3	1.9	2294
24P x 1.5	52.1	2.3	2914
27P x 1.5	53.3	2.3	3128
30P x 1.5	55.2	2.5	3414
33P x 1.5	57.4	2.5	3687
37P x 1.5	59.8	2.5	4019
43P x 1.5	64.9	3.0	4622
48P x 1.5	68.7	3.0	5163
1P x 2.5	15.8	0.8	327
2P x 2.5	22.8	1.1	572
3P x 2.5	24.2	1.1	693
4P x 2.5	26.4	1.3	833
5P x 2.5	28.7	1.3	978
7P x 2.5	31.3	1.5	1226
10P x 2.5	40.5	1.9	1846
12P x 2.5	41.7	1.9	2070
14P x 2.5	44.0	1.9	2335
16P x 2.5	46.4	2.1	2569
19P x 2.5	49.0	2.1	2934
24P x 2.5	57.6	2.5	3754
27P x 2.5	58.9	2.5	4044
30P x 2.5	61.3	3.0	4423
33P x 2.5	63.6	3.0	4809
37P x 2.5	66.4	3.0	5290
43P x 2.5	72.4	3.0	6118
48P x 2.5	76.4	3.0	6788

No. of pairs/triples & Cross section mm ²	Overall diameter		Approx. weight kg/km
	Nom.	±	
mm			kg/km
12T x 1.5	42.8	1.9	2169
14T x 1.5	44.9	1.9	2425
16T x 1.5	47.1	2.1	2692
19T x 1.5	49.9	2.1	3077
24T x 1.5	58.8	2.5	3902
27T x 1.5	60.1	3.0	4267
30T x 1.5	62.3	3.0	4604
33T x 1.5	65.0	3.0	5009
37T x 1.5	67.6	3.0	5512
43T x 1.5	73.6	3.0	6411
48T x 1.5	78.1	3.0	7110
1T x 2.5	16.6	0.9	382
2T x 2.5	25.4	1.3	727
3T x 2.5	26.8	1.3	884
4T x 2.5	29.3	1.3	1073
5T x 2.5	32.0	1.5	1284
7T x 2.5	35.1	1.7	1632
10T x 2.5	45.5	2.1	2458
12T x 2.5	46.9	2.1	2776
14T x 2.5	49.5	2.1	3140
16T x 2.5	52.3	2.3	3521
19T x 2.5	55.4	2.5	4036
24T x 2.5	65.2	3.0	5111
27T x 2.5	66.9	3.0	5600
30T x 2.5	69.5	3.0	6126
33T x 2.5	72.5	3.0	6667
37T x 2.5	75.4	3.0	7344
43T x 2.5	82.0	3.0	8525
48T x 2.5	87.0	3.0	9496

Example
Type: BFOU(C) S4/S8
Size: 7X2X0.75mm²



Example
Type: BFOU(C) S4/S8
Size: 7X3X0.75mm²

