

IEC

SHF2 and NEK 606

CABLES

Mission-critical
Oil & Gas IEC Cables
for Extremely Hazardous
Operating Environments

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Medium Voltage (MV)

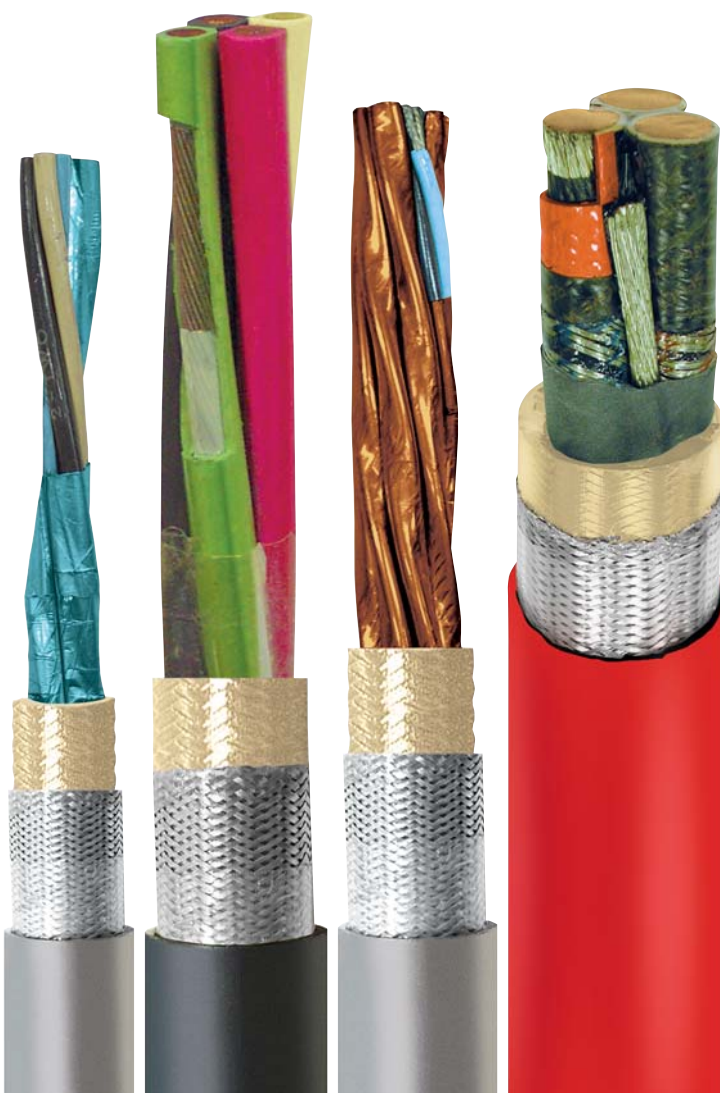
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The Global Cable Solutions Company

AmerCable SHF2 and NEK 606 IEC Cables are designed, tested and approved to reliably operate in the harshest operating environments and applications.

Offshore applications challenge cable construction with relentless heat, vibration, salt corrosion, drilling mud and mechanical stress. For mission-critical IEC or NEMA designed electrical systems, you can depend on AmerCable IEC cables for consistent quality, short lead times and the best on-time delivery rate.



Ampacity Ratings

90°C Ratings: Based on IEC 60092-352 Table 1 with a 45°C ambient.

Bend Radius

IEC 60092-352: 6X Diameter

MV: 9X Diameter for 3/C
12X Diameter for 1/C

Diameter Conversion → (inches to millimeters): Multiply by 25.4

Stranding Profile

Size (mm ²)	No. of Strands	Individual Strand Dia. (mm)	Individual Strand Dia. (Inch)	Uninsulated Conductor Dia. (mm)	Uninsulated Conductor Dia. (Inch)
0.75	24	0.20	0.0079	1.1	0.042
1.0	32	0.20	0.0079	1.3	0.050
1.5	30	0.25	0.0100	1.5	0.059
2.5	50	0.25	0.0100	2.1	0.081
4	56	0.30	0.0120	2.5	0.099
6	84	0.30	0.0120	3.0	0.120
10	133	0.32	0.0125	4.7	0.185
16	133	0.40	0.0158	6.0	0.238
25	259	0.36	0.0143	7.4	0.291
35	259	0.41	0.0160	8.2	0.321
50	19	1.89	0.0745	9.2	0.361
70	19	2.13	0.0837	10.3	0.406
95	19	2.37	0.0933	12.2	0.482
120	37	2.03	0.0799	13.8	0.543
150	37	2.29	0.0900	15.5	0.611
185	37	2.52	0.0992	17.1	0.674
240	61	2.24	0.0882	19.6	0.770
300	61	2.52	0.0992	22.0	0.866

Hawke Gland Types

Hawke Gland Types	Armored & Sheathed
Industrial & Safe Area (IP68)	153-X
Increased Safety "EExe"	501/453/U
Explosion Proof	753 • Class I Div. 1 Class I, Zone 1 & 2
Flameproof "EExd"	501/453/U (2 liter or < enclosures) ICG 653/U (2 liter or > enclosures) Zone 1 & 2

RFOU (i) 250V Instrumentation Cable – SHF2

Flame Retardant • Individual Screen • Halogen-Free • Rated 90°C

Pairs/Triads

Each pair/triad is twisted with a bare tinned drainwire and shielded with a poly/aluminum tape to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile
See Page 1

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 0.75	3405230102GR	0.095	2.41	0.285	7.24	0.435	11.05	128	190
2 x 2 x 0.75	3405230202GR	0.095	2.41	0.429	10.90	0.591	15.01	250	372
4 x 2 x 0.75	3405230402GR	0.095	2.41	0.500	12.70	0.670	17.02	324	482
7 x 2 x 0.75	3405230702GR	0.095	2.41	0.632	16.05	0.809	20.55	462	687
8 x 2 x 0.75	3405230802GR	0.095	2.41	0.652	16.56	0.835	21.21	503	748
12 x 2 x 0.75	3405231202GR	0.095	2.41	0.805	20.45	0.988	25.10	690	1027
16 x 2 x 0.75	3405231602GR	0.095	2.41	0.890	22.61	1.098	27.89	876	1303
19 x 2 x 0.75	3405231902GR	0.095	2.41	0.974	24.74	1.188	30.18	992	1476
24 x 2 x 0.75	3405232402GR	0.095	2.41	1.129	28.68	1.375	34.93	1202	1788
32 x 2 x 0.75	3405233202GR	0.095	2.41	1.248	31.70	1.499	38.07	1566	2330
1 x 2 x 1.0	3405230103GR	0.103	2.62	0.301	7.65	0.451	11.46	141	210
2 x 2 x 1.0	3405230203GR	0.103	2.62	0.455	11.56	0.621	15.77	274	408
4 x 2 x 1.0	3405230403GR	0.103	2.62	0.531	13.49	0.703	17.86	356	530
7 x 2 x 1.0	3405230703GR	0.103	2.62	0.674	17.12	0.853	21.67	508	756
8 x 2 x 1.0	3405230803GR	0.103	2.62	0.695	17.65	0.881	22.38	570	848
12 x 2 x 1.0	3405231203GR	0.103	2.62	0.851	21.62	1.047	26.59	766	1140
16 x 2 x 1.0	3405231603GR	0.103	2.62	0.952	24.18	1.154	29.31	938	1396
19 x 2 x 1.0	3405231903GR	0.103	2.62	1.042	26.47	1.248	31.70	1064	1583
24 x 2 x 1.0	3405232403GR	0.103	2.62	1.208	30.68	1.436	36.47	1319	1963
32 x 2 x 1.0	3405233203GR	0.103	2.62	1.336	33.93	1.581	40.16	1718	2556

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3405230102BL)

SHF2 RFOU (i) Instrumentation Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.



Oil & Gas Cables

0.75 mm² Pairs or Triads
Capacitance = 104 nF/km
Inductance = 0.71 mH/km
Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads
Capacitance = 116 nF/km
Inductance = 0.67 mH/km
Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads
Capacitance = 117 nF/km
Inductance = 0.67 mH/km
Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads
Capacitance = 135 nF/km
Inductance = 0.63 mH/km
Resistance = 8.21 ohms/km

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)
1 x 2 x 1.5	3405230104GR	0.121	3.07	0.337	8.56	0.490	12.45	176	262
2 x 2 x 1.5	3405230204GR	0.121	3.07	0.515	13.08	0.688	17.48	381	567
4 x 2 x 1.5	3405230404GR	0.121	3.07	0.603	15.32	0.783	19.89	457	680
7 x 2 x 1.5	3405230704GR	0.121	3.07	0.769	19.53	0.958	24.33	687	1022
8 x 2 x 1.5	3405230804GR	0.121	3.07	0.802	20.37	0.991	25.17	727	1082
12 x 2 x 1.5	3405231204GR	0.121	3.07	0.976	24.79	1.191	30.25	1001	1489
16 x 2 x 1.5	3405231604GR	0.121	3.07	1.109	28.17	1.310	33.27	1227	1826
19 x 2 x 1.5	3405231904GR	0.121	3.07	1.214	30.84	1.403	35.64	1334	1985
24 x 2 x 1.5	3405232404GR	0.121	3.07	1.387	35.23	1.663	42.24	1738	2586
32 x 2 x 1.5	3405233204GR	0.121	3.07	1.554	39.47	1.815	46.10	2379	3540
1 x 2 x 2.5	3405230105GR	0.143	3.63	0.375	9.530	0.534	13.56	202	301
2 x 2 x 2.5	3405230205GR	0.143	3.63	0.579	14.71	0.756	19.20	480	714
4 x 2 x 2.5	3405230405GR	0.143	3.63	0.681	17.30	0.866	22.00	612	911
7 x 2 x 2.5	3405230705GR	0.143	3.63	0.872	22.15	1.068	27.13	961	1430
8 x 2 x 2.5	3405230805GR	0.143	3.63	0.901	22.89	1.105	28.07	994	1479
12 x 2 x 2.5	3405231205GR	0.143	3.63	1.126	28.60	1.343	34.11	1435	2135
16 x 2 x 2.5	3405231605GR	0.143	3.63	1.261	32.03	1.503	38.18	1847	2748
19 x 2 x 2.5	3405231905GR	0.143	3.63	1.381	35.08	1.644	41.76	2136	3178
24 x 2 x 2.5	3405232405GR	0.143	3.63	1.597	40.56	1.898	48.21	2335	3474
32 x 2 x 2.5	3405233205GR	0.143	3.63	1.770	44.96	2.086	52.98	3114	4633
1 x 3 x 0.75	3405270102GR	0.095	2.41	0.299	7.59	0.457	11.61	145	216
2 x 3 x 0.75	3405270202GR	0.095	2.41	0.522	13.26	0.690	17.53	309	460
4 x 3 x 0.75	3405270402GR	0.095	2.41	0.611	15.52	0.786	19.96	398	592
7 x 3 x 0.75	3405270702GR	0.095	2.41	0.738	18.75	0.921	23.39	550	818
8 x 3 x 0.75	3405270802GR	0.095	2.41	0.823	20.90	1.012	25.70	656	976
12 x 3 x 0.75	3405271202GR	0.095	2.41	0.989	25.12	1.186	30.12	848	1262
16 x 3 x 0.75	3405271602GR	0.095	2.41	1.124	28.55	1.330	33.78	1061	1579
19 x 3 x 0.75	3405271902GR	0.095	2.41	1.189	30.20	1.412	35.86	1236	1839
24 x 3 x 0.75	3405272402GR	0.095	2.41	1.406	35.71	1.657	42.09	1515	2254
32 x 3 x 0.75	3405273202GR	0.095	2.41	1.575	40.01	1.826	46.38	1931	2873
1 x 3 x 1.0	3405270103GR	0.103	2.62	0.316	8.03	0.470	11.94	158	235
2 x 3 x 1.0	3405270203GR	0.103	2.62	0.555	14.10	0.725	18.42	371	552
4 x 3 x 1.0	3405270403GR	0.103	2.62	0.652	16.56	0.828	21.03	454	676
7 x 3 x 1.0	3405270703GR	0.103	2.62	0.788	20.02	0.973	24.71	645	960
8 x 3 x 1.0	3405270803GR	0.103	2.62	0.874	22.20	1.066	27.08	876	1303
12 x 3 x 1.0	3405271203GR	0.103	2.62	1.058	26.87	1.262	32.05	993	1477
16 x 3 x 1.0	3405271603GR	0.103	2.62	1.203	30.56	1.428	36.27	1298	1931
19 x 3 x 1.0	3405271903GR	0.103	2.62	1.273	32.33	1.502	38.15	1452	2160
24 x 3 x 1.0	3405272403GR	0.103	2.62	1.523	38.68	1.724	43.79	1820	2708
32 x 3 x 1.0	3405273203GR	0.103	2.62	1.598	40.59	1.840	46.74	2071	3081
1 x 3 x 1.5	3405270104GR	0.121	3.07	0.353	8.97	0.509	12.930	187	278
2 x 3 x 1.5	3405270204GR	0.121	3.07	0.630	16.00	0.806	20.470	403	600
4 x 3 x 1.5	3405270404GR	0.121	3.07	0.742	18.85	0.928	23.570	576	857
7 x 3 x 1.5	3405270704GR	0.121	3.07	0.867	22.02	1.093	27.760	799	1189
8 x 3 x 1.5	3405270804GR	0.121	3.07	0.984	24.99	1.187	30.150	858	1277
12 x 3 x 1.5	3405271204GR	0.121	3.07	1.231	31.27	1.461	37.110	1270	1890
16 x 3 x 1.5	3405271604GR	0.121	3.07	1.379	35.03	1.621	41.170	1570	2336
19 x 3 x 1.5	3405271904GR	0.121	3.07	1.404	35.66	1.652	41.960	1835	2730
24 x 3 x 1.5	3405272404GR	0.121	3.07	1.680	42.67	1.927	48.950	2304	3428
32 x 3 x 1.5	3405273204GR	0.121	3.07	1.932	49.07	2.210	56.130	2893	4304
1 x 3 x 2.5	3405270105GR	0.143	3.63	0.395	10.03	0.560	14.22	247	368
2 x 3 x 2.5	3405270205GR	0.143	3.63	0.725	18.42	0.908	23.06	562	836
4 x 3 x 2.5	3405270405GR	0.143	3.63	0.856	21.74	1.501	38.13	801	1192
7 x 3 x 2.5	3405270705GR	0.143	3.63	1.043	26.49	1.251	31.78	1170	1741
8 x 3 x 2.5	3405270805GR	0.143	3.63	1.146	29.11	1.361	34.57	1298	1931
12 x 3 x 2.5	3405271205GR	0.143	3.63	1.428	36.27	1.662	42.21	1906	2836
16 x 3 x 2.5	3405271605GR	0.143	3.63	1.619	41.12	1.882	47.80	2304	3726
19 x 3 x 2.5	3405271905GR	0.143	3.63	1.714	43.54	1.984	50.39	2598	4220
24 x 3 x 2.5	3405272405GR	0.143	3.63	2.049	52.04	2.360	59.94	3209	4775
32 x 3 x 2.5	3405273205GR	0.143	3.63	2.273	57.73	2.604	66.14	3861	6806

RFOU (c) 250V Instrumentation Cable – SHF2

Flame Retardant • Collective Screen • Halogen-Free • Rated 90°C

Pairs/Triads

Each pair/triad is twisted together and cabled with an overall poly/aluminum shield to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types

See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 0.75	3405240102GR	0.095	2.41	0.285	7.24	0.435	11.05	128	190
2 x 2 x 0.75	3405240202GR	0.095	2.41	0.415	10.54	0.573	14.55	229	341
4 x 2 x 0.75	3405240402GR	0.095	2.41	0.481	12.22	0.645	16.38	284	423
7 x 2 x 0.75	3405240702GR	0.095	2.41	0.597	15.16	0.771	19.58	384	571
8 x 2 x 0.75	3405240802GR	0.095	2.41	0.621	15.77	0.806	20.47	414	616
12 x 2 x 0.75	3405241202GR	0.095	2.41	0.750	19.05	0.946	24.03	562	836
16 x 2 x 0.75	3405241602GR	0.095	2.41	0.837	21.26	1.031	26.19	662	985
19 x 2 x 0.75	3405241902GR	0.095	2.41	0.915	23.24	1.125	28.58	758	1128
24 x 2 x 0.75	3405242402GR	0.095	2.41	1.044	26.52	1.280	32.51	897	1335
32 x 2 x 0.75	3405243202GR	0.095	2.41	1.172	29.77	1.403	35.64	1150	1711
1 x 2 x 1.0	3405240103GR	0.103	2.62	0.301	7.65	0.451	11.46	141	210
2 x 2 x 1.0	3405240203GR	0.103	2.62	0.439	11.15	0.602	15.29	252	375
4 x 2 x 1.0	3405240403GR	0.103	2.62	0.511	12.98	0.673	17.09	315	469
7 x 2 x 1.0	3405240703GR	0.103	2.62	0.613	15.57	0.816	20.73	453	674
8 x 2 x 1.0	3405240803GR	0.103	2.62	0.645	16.38	0.846	21.49	471	701
12 x 2 x 1.0	3405241203GR	0.103	2.62	0.812	20.62	1.006	25.55	645	960
16 x 2 x 1.0	3405241603GR	0.103	2.62	0.906	23.01	1.101	27.97	772	1149
19 x 2 x 1.0	3405241903GR	0.103	2.62	0.958	24.33	1.187	30.15	872	1297
24 x 2 x 1.0	3405242403GR	0.103	2.62	1.147	29.13	1.369	34.77	1061	1579
32 x 2 x 1.0	3405243203GR	0.103	2.62	1.268	32.21	1.498	38.05	1384	2059

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3405240102BL)

SHF2 RFOU (c) 250V Instrumentation Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.



Oil & Gas Cables

0.75 mm² Pairs or Triads
Capacitance = 64 nF/km
Inductance = 0.71 mH/km
Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads
Capacitance = 68 nF/km
Inductance = 0.67 mH/km
Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads
Capacitance = 69 nF/km
Inductance = 0.69 mH/km
Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads
Capacitance = 76 nF/km
Inductance = 0.63 mH/km
Resistance = 8.21 ohms/km

Size mm ²	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3405240104GR	0.121	3.07	0.337	8.56	0.490	12.45	176	262
2 x 2 x 1.5	3405240204GR	0.121	3.07	0.505	12.83	0.668	16.97	346	515
4 x 2 x 1.5	3405240404GR	0.121	3.07	0.578	14.68	0.754	19.15	419	623
7 x 2 x 1.5	3405240704GR	0.121	3.07	0.740	18.80	0.920	23.37	565	841
8 x 2 x 1.5	3405240804GR	0.121	3.07	0.764	19.41	0.953	24.21	611	909
12 x 2 x 1.5	3405241204GR	0.121	3.07	0.940	23.88	1.142	29.01	828	1232
16 x 2 x 1.5	3405241604GR	0.121	3.07	1.050	26.67	1.251	31.78	1025	1525
19 x 2 x 1.5	3405241904GR	0.121	3.07	1.162	29.51	1.386	35.20	1204	1791
24 x 2 x 1.5	3405242404GR	0.121	3.07	1.326	33.68	1.613	40.97	1394	2812
32 x 2 x 1.5	3405243204GR	0.121	3.07	1.485	37.72	1.747	44.37	1909	3485
1 x 2 x 2.5	3405240105GR	0.143	3.63	0.381	9.68	0.534	13.56	202	301
2 x 2 x 2.5	3405240205GR	0.143	3.63	0.573	14.55	0.736	18.69	386	574
4 x 2 x 2.5	3405240405GR	0.143	3.63	0.680	17.27	0.835	21.21	511	760
7 x 2 x 2.5	3405240705GR	0.143	3.63	0.872	22.15	1.044	26.52	756	1125
8 x 2 x 2.5	3405240805GR	0.143	3.63	0.910	23.11	1.080	27.43	807	1201
12 x 2 x 2.5	3405241205GR	0.143	3.63	1.126	28.60	1.311	33.30	1143	1701
16 x 2 x 2.5	3405241605GR	0.143	3.63	1.261	32.03	1.465	37.21	1467	2183
19 x 2 x 2.5	3405241905GR	0.143	3.63	1.381	35.08	1.589	40.36	1663	2474
24 x 2 x 2.5	3405242405GR	0.143	3.63	1.571	39.90	1.847	46.91	2043	3040
32 x 2 x 2.5	3405243205GR	0.143	3.63	1.733	44.02	2.001	50.83	2607	3879
1 x 3 x 0.75	3405280102GR	0.095	2.41	0.299	7.59	0.457	11.61	145	216
2 x 3 x 0.75	3405280202GR	0.095	2.41	0.497	12.62	0.663	16.84	283	421
4 x 3 x 0.75	3405280402GR	0.095	2.41	0.582	14.78	0.752	19.10	355	528
7 x 3 x 0.75	3405280702GR	0.095	2.41	0.701	17.81	0.880	22.35	488	726
8 x 3 x 0.75	3405280802GR	0.095	2.41	0.786	19.96	0.972	24.69	550	818
12 x 3 x 0.75	3405281202GR	0.095	2.41	0.937	23.80	1.131	28.73	756	1125
16 x 3 x 0.75	3405281602GR	0.095	2.41	1.049	26.64	1.251	31.78	898	1336
19 x 3 x 0.75	3405281902GR	0.095	2.41	1.127	28.63	1.333	33.86	1023	1522
24 x 3 x 0.75	3405282402GR	0.095	2.41	1.331	33.81	1.568	39.83	1235	1838
32 x 3 x 0.75	3405283202GR	0.095	2.41	1.474	37.44	1.716	43.59	1626	2419
1 x 3 x 1.0	3405280103GR	0.103	2.62	0.316	8.03	0.470	11.94	158	235
2 x 3 x 1.0	3405280203GR	0.103	2.62	0.537	13.64	0.703	17.86	348	518
4 x 3 x 1.0	3405280403GR	0.103	2.62	0.629	15.98	0.800	20.32	413	614
7 x 3 x 1.0	3405280703GR	0.103	2.62	0.759	19.28	0.934	23.72	563	838
8 x 3 x 1.0	3405280803GR	0.103	2.62	0.838	21.29	1.025	26.04	734	1152
12 x 3 x 1.0	3405281203GR	0.103	2.62	1.014	25.76	1.206	30.63	859	1278
16 x 3 x 1.0	3405281603GR	0.103	2.62	1.152	29.26	1.353	34.37	1077	1602
19 x 3 x 1.0	3405281903GR	0.103	2.62	1.218	30.94	1.436	36.47	1253	1864
24 x 3 x 1.0	3405282403GR	0.103	2.62	1.440	36.58	1.697	43.10	1498	2229
32 x 3 x 1.0	3405283203GR	0.103	2.62	1.612	40.94	1.857	47.17	1957	2912
1 x 3 x 1.5	3405280104GR	0.121	3.07	0.353	8.97	0.509	12.93	187	278
2 x 3 x 1.5	3405280204GR	0.121	3.07	0.614	15.60	0.783	19.89	427	635
4 x 3 x 1.5	3405280404GR	0.121	3.07	0.721	18.31	0.909	23.09	535	796
7 x 3 x 1.5	3405280704GR	0.121	3.07	0.874	22.20	1.059	26.90	744	1107
8 x 3 x 1.5	3405280804GR	0.121	3.07	0.953	24.21	1.147	29.13	824	1226
12 x 3 x 1.5	3405281204GR	0.121	3.07	1.191	30.25	1.241	31.52	943	1403
16 x 3 x 1.5	3405281604GR	0.121	3.07	1.333	33.86	1.548	39.32	1437	2138
19 x 3 x 1.5	3405281904GR	0.121	3.07	1.410	35.81	1.645	41.78	1667	2480
24 x 3 x 1.5	3405282404GR	0.121	3.07	1.687	42.85	1.928	48.97	2095	3117
32 x 3 x 1.5	3405283204GR	0.121	3.07	1.869	47.47	2.134	54.20	2669	3971
1 x 3 x 2.5	3405280105GR	0.143	3.63	0.401	10.19	0.567	14.40	247	368
2 x 3 x 2.5	3405280205GR	0.143	3.63	0.709	18.01	0.882	22.40	508	756
4 x 3 x 2.5	3405280405GR	0.143	3.63	0.836	21.23	1.017	25.83	693	1031
7 x 3 x 2.5	3405280705GR	0.143	3.63	1.016	25.81	1.208	30.68	1007	1498
8 x 3 x 2.5	3405280805GR	0.143	3.63	1.126	28.60	1.312	33.32	1369	2037
12 x 3 x 2.5	3405281205GR	0.143	3.63	1.355	34.42	1.582	40.18	1541	2293
16 x 3 x 2.5	3405281605GR	0.143	3.63	1.572	39.93	1.802	45.77	2029	3019
19 x 3 x 2.5	3405281905GR	0.143	3.63	1.664	42.27	1.901	48.29	2278	3389
24 x 3 x 2.5	3405282405GR	0.143	3.63	1.988	50.50	2.295	58.29	2891	4301
32 x 3 x 2.5	3405283205GR	0.143	3.63	2.204	55.98	2.473	62.81	3690	5490

BFOU (i) 250V Instrumentation Cable – SHF2

Fire Resistant • Individual Screen • Halogen-Free • Rated 90°C

Pairs/Triads

Each pair/triad is twisted with a bare tinned drainwire and shielded with a poly/aluminum tape to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Fire resistant tape and low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types
See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile
See Page 1

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 0.75	3414230102GR	0.109	2.77	0.312	7.92	0.462	11.73	148	220
2 x 2 x 0.75	3414230202GR	0.109	2.77	0.473	12.01	0.635	16.13	288	429
4 x 2 x 0.75	3414230402GR	0.109	2.77	0.552	14.02	0.735	18.67	397	591
7 x 2 x 0.75	3414230702GR	0.109	2.77	0.667	16.94	0.861	21.87	541	805
8 x 2 x 0.75	3414230802GR	0.109	2.77	0.724	18.39	0.922	23.42	604	899
12 x 2 x 0.75	3414231202GR	0.109	2.77	0.888	22.56	1.103	28.02	849	1263
16 x 2 x 0.75	3414231602GR	0.109	2.77	0.986	25.04	1.184	30.07	927	1379
19 x 2 x 0.75	3414231902GR	0.109	2.77	1.053	26.75	1.283	32.59	1143	1701
24 x 2 x 0.75	3414232402GR	0.109	2.77	1.294	32.87	1.537	39.04	1327	1974
32 x 2 x 0.75	3414233202GR	0.109	2.77	1.385	35.18	1.610	40.89	1620	2410
1 x 2 x 1.0	3414230103GR	0.114	2.90	0.322	8.18	0.472	11.99	160	238
2 x 2 x 1.0	3414230203GR	0.114	2.90	0.487	12.37	0.654	16.61	325	484
4 x 2 x 1.0	3414230403GR	0.114	2.90	0.570	14.48	0.743	18.87	406	604
7 x 2 x 1.0	3414230703GR	0.114	2.90	0.687	17.45	0.866	22.00	547	814
8 x 2 x 1.0	3414230803GR	0.114	2.90	0.747	18.97	0.932	23.67	611	909
12 x 2 x 1.0	3414231203GR	0.114	2.90	0.920	23.37	1.116	28.35	861	1281
16 x 2 x 1.0	3414231603GR	0.114	2.90	1.023	25.98	1.225	31.12	943	1403
19 x 2 x 1.0	3414231903GR	0.114	2.90	1.104	28.04	1.323	33.60	1198	1782
24 x 2 x 1.0	3414232403GR	0.114	2.90	1.313	33.35	1.534	38.96	1407	2093
32 x 2 x 1.0	3414233203GR	0.114	2.90	1.462	37.13	1.761	44.73	1865	2775

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3414230102BL)

SHF2 BFOU (i) 250V Instrumentation Cable



See **page 1** for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Oil & Gas Cables

0.75 mm² Pairs or Triads
Capacitance = 83 nF/km
Inductance = 0.80 mH/km
Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads
Capacitance = 94 nF/km
Inductance = 0.75 mH/km
Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads
Capacitance = 98 nF/km
Inductance = 0.74 mH/km
Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads
Capacitance = 117 nF/km
Inductance = 0.67 mH/km
Resistance = 8.21 ohms/km

Size mm ²	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3414230104GR	0.131	3.33	0.354	8.99	0.507	12.88	172	256
2 x 2 x 1.5	3414230204GR	0.131	3.33	0.543	13.79	0.715	18.16	367	546
4 x 2 x 1.5	3414230404GR	0.131	3.33	0.638	16.21	0.816	20.73	477	710
7 x 2 x 1.5	3414230704GR	0.131	3.33	0.825	20.96	1.014	25.76	759	1129
8 x 2 x 1.5	3414230804GR	0.131	3.33	0.891	22.63	1.099	27.91	857	1275
12 x 2 x 1.5	3414231204GR	0.131	3.33	1.034	26.26	1.242	31.55	1016	1512
16 x 2 x 1.5	3414231604GR	0.131	3.33	1.259	31.98	1.375	34.93	1223	1820
19 x 2 x 1.5	3414231904GR	0.131	3.33	1.285	32.64	1.504	38.20	1532	2279
24 x 2 x 1.5	3414232404GR	0.131	3.33	1.483	37.67	1.737	44.12	2035	3028
32 x 2 x 1.5	3414233204GR	0.131	3.33	1.646	41.81	1.907	48.44	2487	3700
1 x 2 x 2.5	3414230105GR	0.153	3.89	0.392	9.96	0.557	14.15	210	312
2 x 2 x 2.5	3414230205GR	0.153	3.89	0.619	15.72	0.806	20.47	529	787
4 x 2 x 2.5	3414230405GR	0.153	3.89	0.716	18.19	0.901	22.89	591	879
7 x 2 x 2.5	3414230705GR	0.153	3.89	0.939	23.85	1.135	28.83	987	1469
8 x 2 x 2.5	3414230805GR	0.153	3.89	1.003	25.48	1.207	30.66	1135	1689
12 x 2 x 2.5	3414231205GR	0.153	3.89	1.169	29.69	1.386	35.20	1301	1936
16 x 2 x 2.5	3414231605GR	0.153	3.89	1.353	34.37	1.582	40.18	1847	2748
19 x 2 x 2.5	3414231905GR	0.153	3.89	1.504	38.20	1.753	44.53	2199	3272
24 x 2 x 2.5	3414232405GR	0.153	3.89	1.714	43.54	2.007	50.98	2786	4145
32 x 2 x 2.5	3414233205GR	0.153	3.89	1.902	48.31	2.180	55.37	3203	4766
1 x 3 x 0.75	3414270102GR	0.109	2.77	0.327	8.31	0.479	12.17	151	225
2 x 3 x 0.75	3414270202GR	0.109	2.77	0.568	14.43	0.736	18.69	336	500
4 x 3 x 0.75	3414270402GR	0.109	2.77	0.668	16.97	0.842	21.39	464	690
7 x 3 x 0.75	3414270702GR	0.109	2.77	0.809	20.55	0.991	25.17	637	948
8 x 3 x 0.75	3414270802GR	0.109	2.77	0.885	22.48	1.074	27.28	773	1150
12 x 3 x 0.75	3414271202GR	0.109	2.77	1.086	27.58	1.286	32.66	1018	1515
16 x 3 x 0.75	3414271602GR	0.109	2.77	1.235	31.37	1.454	36.93	1302	1937
19 x 3 x 0.75	3414271902GR	0.109	2.77	1.306	33.17	1.529	38.84	1423	2117
24 x 3 x 0.75	3414272402GR	0.109	2.77	1.606	40.79	1.833	46.56	1723	2564
32 x 3 x 0.75	3414273202GR	0.109	2.77	1.732	43.99	1.983	50.37	2353	3501
1 x 3 x 1.0	3414270103GR	0.114	3.51	0.338	8.59	0.492	12.50	175	260
2 x 3 x 1.0	3414270203GR	0.114	3.51	0.595	15.11	0.765	19.43	387	576
4 x 3 x 1.0	3414270403GR	0.114	3.51	0.706	17.93	0.883	22.43	509	757
7 x 3 x 1.0	3414270703GR	0.114	3.51	0.856	21.74	1.041	26.44	700	1042
8 x 3 x 1.0	3414270803GR	0.114	3.51	0.933	23.70	1.124	28.55	802	1193
12 x 3 x 1.0	3414271203GR	0.114	3.51	1.153	29.29	1.356	34.44	1063	1582
16 x 3 x 1.0	3414271603GR	0.114	3.51	1.293	32.84	1.505	38.23	1347	2004
19 x 3 x 1.0	3414271903GR	0.114	3.51	1.369	34.77	1.585	40.26	1502	2235
24 x 3 x 1.0	3414272403GR	0.114	3.51	1.669	42.39	1.917	48.69	1985	2953
32 x 3 x 1.0	3414273203GR	0.114	3.51	1.822	46.28	2.081	52.86	2537	3775
1 x 3 x 1.5	3414270104GR	0.131	3.33	0.375	9.53	0.530	13.46	210	312
2 x 3 x 1.5	3414270204GR	0.131	3.33	0.675	17.15	0.852	21.64	468	696
4 x 3 x 1.5	3414270404GR	0.131	3.33	0.497	12.62	0.977	24.82	631	939
7 x 3 x 1.5	3414270704GR	0.131	3.33	0.969	24.61	1.164	29.57	901	1341
8 x 3 x 1.5	3414270804GR	0.131	3.33	1.063	27.00	1.267	32.18	1012	1506
12 x 3 x 1.5	3414271204GR	0.131	3.33	1.325	33.66	1.546	39.27	1392	2071
16 x 3 x 1.5	3414271604GR	0.131	3.33	1.473	37.41	1.702	43.23	1601	2382
19 x 3 x 1.5	3414271904GR	0.131	3.33	1.590	40.39	1.839	46.71	2063	3070
24 x 3 x 1.5	3414272404GR	0.131	3.33	1.900	48.26	2.164	54.97	2498	3717
32 x 3 x 1.5	3414273204GR	0.131	3.33	2.107	53.52	2.385	60.58	3108	4624
1 x 3 x 2.5	3414270105GR	0.153	3.89	0.380	9.65	0.548	13.92	221	329
2 x 3 x 2.5	3414270205GR	0.153	3.89	0.727	18.47	0.908	23.06	572	851
4 x 3 x 2.5	3414270405GR	0.153	3.89	0.895	22.73	1.086	27.58	788	1172
7 x 3 x 2.5	3414270705GR	0.153	3.89	1.108	28.14	1.311	33.30	1193	1775
8 x 3 x 2.5	3414270805GR	0.153	3.89	1.209	30.71	1.423	36.14	1368	2035
12 x 3 x 2.5	3414271205GR	0.153	3.89	1.494	37.95	1.723	43.76	1798	2675
16 x 3 x 2.5	3414271605GR	0.153	3.89	1.718	43.64	1.975	50.17	2389	3555
19 x 3 x 2.5	3414271905GR	0.153	3.89	1.810	45.97	2.073	52.65	2666	3967
24 x 3 x 2.5	3414272405GR	0.153	3.89	2.170	55.12	2.450	62.23	3333	4959
32 x 3 x 2.5	3414273205GR	0.153	3.89	2.396	60.86	2.693	68.40	4100	6100

BFOU (c) 250V Instrumentation Cable – SHF2

Fire Resistant • Collective Screen • Halogen-Free • Rated 90°C

Pairs/Triads

Each pair/triad is twisted together and cabled with an overall poly/aluminum shield to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.



Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Fire resistant tape and low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types

See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile

See Page 1

Size mm ²	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)
1 x 2 x 0.75	3414240102GR	0.109	2.77	0.340	7.92	0.462	11.73	148	220
2 x 2 x 0.75	3414240202GR	0.109	2.77	0.496	11.56	0.614	15.60	257	382
4 x 2 x 0.75	3414240402GR	0.109	2.77	0.570	13.46	0.696	17.68	324	482
7 x 2 x 0.75	3414240702GR	0.109	2.77	0.688	16.21	0.813	20.65	407	606
8 x 2 x 0.75	3414240802GR	0.109	2.77	0.749	17.58	0.871	22.12	488	726
12 x 2 x 0.75	3414241202GR	0.109	2.77	0.926	21.74	1.043	26.49	652	970
16 x 2 x 0.75	3414241602GR	0.109	2.77	1.035	26.80	1.149	29.18	806	1199
19 x 2 x 0.75	3414241902GR	0.109	2.77	1.104	25.91	1.245	31.62	954	1419
24 x 2 x 0.75	3414242402GR	0.109	2.77	1.334	30.94	1.426	36.22	1047	1558
32 x 2 x 0.75	3414243202GR	0.109	2.77	1.443	33.78	1.594	40.49	1496	2226
1 x 2 x 1.0	3414240103GR	0.114	2.90	0.342	8.18	0.472	11.99	160	238
2 x 2 x 1.0	3414240203GR	0.114	2.90	0.509	12.14	0.640	16.26	278	414
4 x 2 x 1.0	3414240403GR	0.114	2.90	0.593	14.15	0.725	18.42	361	537
7 x 2 x 1.0	3414240703GR	0.114	2.90	0.716	18.01	0.886	22.50	436	649
8 x 2 x 1.0	3414240803GR	0.114	2.90	0.780	18.26	0.902	22.91	529	787
12 x 2 x 1.0	3414241203GR	0.114	2.90	0.956	22.38	1.072	27.23	721	1073
16 x 2 x 1.0	3414241603GR	0.114	2.90	1.086	25.10	1.186	30.12	845	1257
19 x 2 x 1.0	3414241903GR	0.114	2.90	1.148	27.69	1.293	32.84	992	1476
24 x 2 x 1.0	3414242403GR	0.114	2.90	1.356	32.18	1.481	37.62	1158	1723
32 x 2 x 1.0	3414243203GR	0.114	2.90	1.518	35.56	1.636	41.55	1638	2437

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3414240102BL)

SHF2 BFOU (c) 250V Instrumentation Cable



See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Oil & Gas Cables

0.75 mm² Pairs or Triads
Capacitance = 57 nF/km
Inductance = 0.80 mH/km
Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads
Capacitance = 60nF/km
Inductance = 0.75 mH/km
Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads
Capacitance = 61 nF/km
Inductance = 0.74 mH/km
Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads
Capacitance = 69 nF/km
Inductance = 0.67 mH/km
Resistance = 8.21 ohms/km

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3414240104GR	0.131	3.58	0.354	8.99	0.507	12.88	172	256
2 x 2 x 1.5	3414240204GR	0.131	3.58	0.529	13.44	0.697	17.70	342	509
4 x 2 x 1.5	3414240404GR	0.131	3.58	0.620	15.75	0.797	20.24	449	668
7 x 2 x 1.5	3414240704GR	0.131	3.58	0.796	20.22	0.981	24.92	631	939
8 x 2 x 1.5	3414240804GR	0.131	3.58	0.817	20.75	1.008	25.60	683	1016
12 x 2 x 1.5	3414241204GR	0.131	3.58	1.004	25.50	1.206	30.63	874	1300
16 x 2 x 1.5	3414241604GR	0.131	3.58	1.129	28.68	1.339	34.01	1111	1653
19 x 2 x 1.5	3414241904GR	0.131	3.58	1.253	31.83	1.481	37.62	1303	1939
24 x 2 x 1.5	3414242404GR	0.131	3.58	1.460	37.08	1.691	42.95	1532	2279
32 x 2 x 1.5	3414243204GR	0.131	3.58	1.600	40.64	1.886	47.90	2015	2998
1 x 2 x 2.5	3414240105GR	0.153	4.14	0.392	9.96	0.557	14.15	210	312
2 x 2 x 2.5	3414240205GR	0.153	4.14	0.631	16.03	0.775	19.69	429	638
4 x 2 x 2.5	3414240405GR	0.153	4.14	0.697	17.70	0.891	22.63	536	798
7 x 2 x 2.5	3414240705GR	0.153	4.14	0.896	22.76	1.108	28.14	788	1172
8 x 2 x 2.5	3414240805GR	0.153	4.14	0.935	23.75	1.135	28.83	883	1314
12 x 2 x 2.5	3414241205GR	0.153	4.14	1.170	29.72	1.393	35.38	1302	1937
16 x 2 x 2.5	3414241605GR	0.153	4.14	1.310	33.27	1.544	39.22	1543	2296
19 x 2 x 2.5	3414241905GR	0.153	4.14	1.433	36.40	1.703	43.26	1714	2550
24 x 2 x 2.5	3414242405GR	0.153	4.14	1.660	42.16	1.919	48.74	2101	3126
32 x 2 x 2.5	3414243205GR	0.153	4.14	1.814	46.08	2.082	52.88	2653	3947
1 x 3 x 0.75	3414280102GR	0.109	2.77	0.327	8.31	0.479	12.17	151	225
2 x 3 x 0.75	3414280202GR	0.109	2.77	0.560	14.22	0.722	18.34	321	478
4 x 3 x 0.75	3414280402GR	0.109	2.77	0.657	16.69	0.828	21.03	405	603
7 x 3 x 0.75	3414280702GR	0.109	2.77	0.794	20.17	0.973	24.71	548	815
8 x 3 x 0.75	3414280802GR	0.109	2.77	0.872	22.15	1.057	26.85	642	955
12 x 3 x 0.75	3414281202GR	0.109	2.77	1.061	26.95	1.255	31.88	906	1348
16 x 3 x 0.75	3414281602GR	0.109	2.77	1.189	30.20	1.391	35.33	1084	1613
19 x 3 x 0.75	3414281902GR	0.109	2.77	1.258	31.95	1.464	37.19	1211	1802
24 x 3 x 0.75	3414282402GR	0.109	2.77	1.533	38.94	1.751	44.48	1326	1973
32 x 3 x 0.75	3414283202GR	0.109	2.77	1.691	42.95	1.933	49.10	1918	2854
1 x 3 x 1.0	3414280103GR	0.114	3.51	0.338	8.59	0.492	12.50	175	260
2 x 3 x 1.0	3414280203GR	0.114	3.51	0.577	14.66	0.745	18.92	359	534
4 x 3 x 1.0	3414280403GR	0.114	3.51	0.678	17.22	0.850	21.59	464	690
7 x 3 x 1.0	3414280703GR	0.114	3.51	0.824	20.93	1.005	25.53	615	915
8 x 3 x 1.0	3414280803GR	0.114	3.51	0.899	22.83	1.086	27.58	755	1123
12 x 3 x 1.0	3414281203GR	0.114	3.51	1.120	28.45	1.330	33.78	944	1405
16 x 3 x 1.0	3414281603GR	0.114	3.51	1.209	30.71	1.428	36.27	1229	1829
19 x 3 x 1.0	3414281903GR	0.114	3.51	1.326	33.68	1.549	39.34	1398	2080
24 x 3 x 1.0	3414282403GR	0.114	3.51	1.612	40.94	1.836	46.63	1587	2361
32 x 3 x 1.0	3414283203GR	0.114	3.51	1.775	45.09	2.026	51.46	2142	3187
1 x 3 x 1.5	3414280104GR	0.131	3.58	0.375	9.53	0.530	13.46	210	312
2 x 3 x 1.5	3414280204GR	0.131	3.58	0.653	16.59	0.828	21.03	453	674
4 x 3 x 1.5	3414280404GR	0.131	3.58	0.771	19.58	0.951	24.16	599	891
7 x 3 x 1.5	3414280704GR	0.131	3.58	0.936	23.77	1.127	28.63	842	1253
8 x 3 x 1.5	3414280804GR	0.131	3.58	1.039	26.39	1.238	31.45	918	1366
12 x 3 x 1.5	3414281204GR	0.131	3.58	1.279	32.49	1.489	37.82	1295	1927
16 x 3 x 1.5	3414281604GR	0.131	3.58	1.451	36.86	1.671	42.44	1551	2308
19 x 3 x 1.5	3414281904GR	0.131	3.58	1.535	38.99	1.761	44.73	1837	2733
24 x 3 x 1.5	3414282404GR	0.131	3.58	1.831	46.51	2.077	52.76	2261	3364
32 x 3 x 1.5	3414283204GR	0.131	3.58	2.032	51.61	2.289	58.14	2913	4334
1 x 3 x 2.5	3414280105GR	0.153	4.14	0.380	9.65	0.548	13.92	221	329
2 x 3 x 2.5	3414280205GR	0.153	4.14	0.745	18.92	0.924	23.47	549	817
4 x 3 x 2.5	3414280405GR	0.153	4.14	0.881	23.88	1.068	27.13	747	1111
7 x 3 x 2.5	3414280705GR	0.153	4.14	1.090	27.69	1.288	32.72	1103	1641
8 x 3 x 2.5	3414280805GR	0.153	4.14	1.190	30.23	1.417	35.99	1333	1983
12 x 3 x 2.5	3414281205GR	0.153	4.14	1.487	37.77	1.723	43.76	1702	2532
16 x 3 x 2.5	3414281605GR	0.153	4.14	1.666	42.32	1.915	48.64	2256	3357
19 x 3 x 2.5	3414281905GR	0.153	4.14	1.764	44.81	2.019	51.28	2436	3625
24 x 3 x 2.5	3414282405GR	0.153	4.14	2.106	53.49	2.378	60.40	2923	4349
32 x 3 x 2.5	3414283205GR	0.153	4.14	2.340	59.44	2.626	66.70	3921	5834

RFOU P1 0.6/1kV Power and Control Cable – SHF2

Flame Retardant • Halogen-Free • Mud Resistant • Rated 90°C

Insulation

Low smoke
halogen-free
EP meeting
IEC 60092-351

Core Identification:

2 Core: White - Black
3 Core: White - Black -
Red or
Green/Yellow
4 Core: White - Black -
Red - Light Blue
or Green/Yellow
5 Core and above:
Solid color with
printed numbers

Outer Sheath

Low smoke halogen-
free flame retardant
compound meeting
IEC 60092-359
Type SHF-2.

*Standard sheath color
is black. Blue sheath is
available for intrinsically
safe installations.*

Conductor

Flexible Class 5
(for sizes up to 35 sq. mm)
or Class 2 (for sizes
50 sq. mm and larger)
tinned copper per
IEC 60228

Constructions also available
with yellow-green ground.
Add "E" to end of Part No.

Bedding

Low smoke halogen-free
polyolefin bedding
meeting IEC 60092-353

Armor

Basket weave
tinned copper wire
armor per
IEC 60092-353

Application

Designed for power, control and lighting
systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351,
IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count
Class 5 (metric) conductors for sizes up
to 35 sq. mm. For sizes larger than
50 sq. mm, Class 2 strand is used.
- Oil resistance: Meets NEK606
for Type SHF-2 (meets Annex F
of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Hawke Gland Types

See Page 1

Stranding Profile

See Page 1

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3409310109	0.325	8.26	0.409	10.39	0.574	14.58	281	418	96	1.24	0.139
1 x 25	3409310110	0.395	10.03	0.461	11.71	0.634	16.10	376	559	127	0.795	0.133
1 x 35	3409310111	0.425	10.80	0.505	12.83	0.680	17.27	446	664	157	0.565	0.128
1 x 50	3409310112	0.482	12.24	0.569	14.45	0.743	18.87	593	882	196	0.391	0.121
1 x 70	3409310113	0.527	13.39	0.614	15.60	0.793	20.14	707	1052	242	0.270	0.117
1 x 95	3409310114	0.619	15.72	0.707	17.96	0.898	22.81	939	1397	293	0.195	0.114
1 x 120	3409310115	0.672	17.07	0.760	19.30	0.951	24.16	1114	1658	339	0.154	0.110
1 x 150	3409310116	0.765	19.43	0.852	21.64	1.048	26.62	1377	2049	389	0.126	0.109
1 x 185	3409310117	0.834	21.18	0.921	23.39	1.131	28.73	1643	2445	444	0.100	0.109
1 x 240	3409310118	0.946	24.03	1.045	26.54	1.255	31.88	2082	3098	522	0.0762	0.105
1 x 300	3409310119	1.052	26.72	1.139	28.93	1.358	34.49	2562	3812	601	0.0607	0.107
2 x 1.5/5	3409310204	0.141	3.58	0.369	9.37	0.529	13.44	189	281	20	13.70	0.137
2 x 2.5/7	3409310205	0.163	4.14	0.407	10.34	0.569	14.45	223	332	26	8.21	0.127
2 x 4/7	3409310206	0.181	4.60	0.449	11.40	0.617	15.67	281	418	34	5.09	0.119
2 x 6/9	3409310207	0.202	5.13	0.491	12.47	0.662	16.81	325	484	44	3.39	0.110
2 x 10/11	3409310208	0.262	6.65	0.627	15.93	0.802	20.37	477	710	61	1.95	0.097
2 x 16/16	3409310209	0.325	8.26	0.737	18.72	0.933	23.70	661	983	82	1.24	0.096
2 x 25/16	3409310210	0.395	10.03	0.877	22.28	1.068	27.13	907	1350	108	0.795	0.095

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3409310109BL)
For yellow-green ground, add "E" to end of Part Number (example: 3409310109E)

SHF2

RFOU P1 Power and Control Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
3 x 1.5/5	3409310304	0.141	3.58	0.392	9.96	0.553	14.05	219	326	16	13.70	0.137
3 x 2.5/7	3409310305	0.163	4.14	0.439	11.15	0.605	15.37	261	388	21	8.21	0.127
3 x 4/7	3409310306	0.181	4.60	0.478	12.14	0.648	16.46	315	469	28	5.09	0.119
3 x 6/9	3409310307	0.202	5.13	0.523	13.28	0.695	17.65	381	567	36	3.39	0.110
3 x 10/11	3409310308	0.262	6.65	0.669	16.99	0.848	21.54	569	847	50	1.95	0.097
3 x 16/16	3409310309	0.325	8.26	0.788	20.02	0.973	24.71	786	1169	67	1.24	0.096
3 x 25/16	3409310310	0.395	10.03	0.939	23.85	1.134	28.80	1123	1671	89	0.795	0.095
3 x 35/16	3409310311	0.435	11.05	1.025	26.04	1.241	31.52	1413	2102	110	0.565	0.094
3 x 50/25	3409310312	0.482	12.24	1.125	28.58	1.355	34.42	1848	2750	137	0.391	0.089
3 x 70/35	3409310313	0.527	13.39	1.239	31.47	1.479	37.57	2594	3860	169	0.270	0.088
3 x 95/50	3409310314	0.619	15.72	1.438	36.53	1.713	43.51	3166	4711	205	0.195	0.088
3 x 120	3409310315	0.672	17.07	1.553	39.45	1.815	46.10	3631	5403	237	0.154	0.086
3 x 120+70E	3409310315E	0.672	17.07	1.744	44.30	2.022	51.36	4633	6893	237	0.154	0.086
3 x 150	3409310316	0.765	19.43	1.770	44.96	2.046	51.97	4582	6818	272	0.126	0.088
3 x 150+85E	3409310316E	0.765	19.43	1.968	49.99	2.258	57.35	5775	8593	272	0.126	0.088
3 x 185	3409310317	0.834	21.18	1.935	49.15	2.240	56.90	5542	8246	311	0.100	0.091
3 x 185+95E	3409310317E	0.834	21.18	2.151	54.64	2.458	62.43	6940	10326	311	0.100	0.091
3 x 240	3409310318	0.946	24.03	2.176	55.27	2.485	63.12	6993	10405	365	0.0762	0.085
3 x 240+120E	3409310318E	0.946	24.03	2.421	61.49	2.765	70.23	8909	13256	365	0.0762	0.085
4 x 1.5/7	3409310404	0.141	3.58	0.428	10.87	0.594	15.09	243	362	16	13.70	0.145
4 x 2.5/7	3409310405	0.163	4.14	0.481	12.22	0.649	16.48	301	448	21	8.21	0.135
4 x 4/9	3409310406	0.181	4.60	0.525	13.34	0.696	17.68	367	546	28	5.09	0.122
4 x 6/9	3409310407	0.202	5.13	0.575	14.61	0.752	19.10	450	670	36	3.39	0.118
4 x 10/11	3409310408	0.262	6.65	0.739	18.77	0.922	23.42	685	1019	50	1.95	0.106
4 x 16/16	3409310409	0.325	8.26	0.873	22.17	1.063	27.00	978	1455	67	1.24	0.105
4 x 25/16	3409310410	0.395	10.03	1.041	26.44	1.242	31.55	1382	2056	89	0.795	0.104
4 x 35/16	3409310411	0.435	11.05	1.137	28.88	1.349	34.26	1697	2525	110	0.565	0.101
4 x 50/25	3409310412	0.482	12.24	1.267	32.18	1.507	38.28	2337	3477	137	0.391	0.102
4 x 70/35	3409310413	0.527	13.39	1.375	34.93	1.645	41.78	2873	4275	169	0.270	0.100
4 x 95/50	3409310414	0.619	15.72	1.599	40.61	1.882	47.8	3928	5844	205	0.195	0.099
4 x 120/60	3409310415	0.672	17.07	1.744	44.30	2.052	52.12	4772	7100	237	0.154	0.097
5 x 1.5/7	3409310504	0.141	3.58	0.413	10.49	0.579	14.71	272	405	-	13.70	-
7 x 1.5/9	3409310704	0.141	3.58	0.510	12.95	0.683	17.35	329	490	-	13.70	-
12 x 1.5/11	3409311204	0.141	3.58	0.673	17.09	0.858	21.79	508	756	-	13.70	-
19 x 1.5/11	3409311904	0.141	3.58	0.792	20.12	0.988	25.10	756	1125	-	13.70	-
24 x 1.5/11	3409312404	0.141	3.58	0.933	23.70	1.154	29.31	858	1277	-	13.70	-
27 x 1.5/16	3409312704	0.141	3.58	0.955	24.26	1.163	29.54	950	1413	-	13.70	-
37 x 1.5/16	3409313704	0.141	3.58	1.091	27.71	1.316	33.43	1165	1733	-	13.70	-
5 x 2.5/9	3409310505	0.160	4.06	0.520	13.21	0.692	17.58	345	513	-	8.21	-
7 x 2.5/9	3409310705	0.160	4.06	0.576	14.63	0.753	19.13	416	619	-	8.21	-
12 x 2.5/11	3409311205	0.160	4.06	0.765	19.43	0.956	24.28	638	949	-	8.21	-
19 x 2.5/11	3409311905	0.160	4.06	0.902	22.91	1.104	28.04	884	1315	-	8.21	-
24 x 2.5/16	3409312405	0.160	4.06	1.047	26.59	1.262	32.05	1091	1623	-	8.21	-
27 x 2.5/16	3409312705	0.160	4.06	1.072	27.23	1.289	32.74	1171	1742	-	8.21	-
37 x 2.5/16	3409313705	0.160	4.06	1.227	31.17	1.456	36.98	1517	2257	-	8.21	-

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3409310109BL)

For yellow-green ground, add "E" to end of Part Number (example: 3409310109E)



BFOU P5 0.6/1kV Power and Control Cable – SHF2

Fire Resistant • Halogen-Free • Mud Resistant • Rated 90°C

Insulation

Fire resistant tape
low smoke halogen-free
EP meeting
IEC 60092-351

Core Identification:

2 Core: White - Black
3 Core: White - Black -
Red or
Green/Yellow
4 Core: White - Black -
Red - Light Blue
or Green/Yellow
5 Core and above:
Solid color with
printed numbers

Outer Sheath

Low smoke halogen-
free flame retardant
compound meeting
IEC 60092-359
Type SHF-2.

*Standard sheath color
is black. Blue sheath is
available for intrinsically
safe installations.*

Conductor

Flexible Class 5
(for sizes up to 35 sq.
mm) or Class 2 (for sizes
50 sq. mm and larger)
tinned copper per
IEC 60228

Constructions also available
with yellow-green ground.
Add "E" to end of Part No.

Bedding

Low smoke halogen-free
polyolefin bedding
meeting IEC 60092-353

Armor

Basket weave
tinned copper wire
armor per
IEC 60092-353

Application

Designed for power, control and lighting
systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351,
IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count
Class 5 (metric) conductors for sizes
up to 35 sq. mm. For sizes larger than
50 sq. mm, Class 2 strand is used.
- Oil resistance: Meets NEK606
for Type SHF-2 (meets Annex F
of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

**Hawke Gland
Types**

See Page 1

**Stranding
Profile**

See Page 1

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3411310109	0.345	8.76	0.432	10.97	0.600	15.24	295	439	96	1.240	0.142
1 x 25	3411310110	0.420	10.67	0.503	12.78	0.678	17.22	412	613	127	0.795	0.136
1 x 35	3411310111	0.450	11.43	0.547	13.89	0.726	18.44	488	726	157	0.565	0.131
1 x 50	3411310112	0.507	12.88	0.594	15.09	0.777	19.74	617	918	196	0.391	0.124
1 x 70	3411310113	0.552	14.02	0.639	16.23	0.824	20.93	727	1082	242	0.270	0.120
1 x 95	3411310114	0.637	16.18	0.732	18.59	0.925	23.50	959	1427	293	0.195	0.117
1 x 120	3411310115	0.698	17.73	0.785	19.94	0.976	24.79	1136	1690	339	0.154	0.112
1 x 150	3411310116	0.790	20.07	0.878	22.30	1.083	27.51	1409	2096	389	0.126	0.111
1 x 185	3411310117	0.857	21.77	0.944	23.98	1.157	29.39	1661	2471	444	0.100	0.111
1 x 240	3411310118	0.971	24.66	1.058	26.87	1.279	32.49	2096	3119	522	0.0762	0.107
1 x 300	3411310119	1.077	27.36	1.181	30.00	1.427	36.25	2653	3947	601	0.0607	0.108
2 x 1.5/5	3411310204	0.152	3.86	0.389	9.88	0.549	13.94	196	292	20	13.70	0.147
2 x 2.5/7	3411310205	0.174	4.42	0.427	10.85	0.589	14.96	239	356	26	8.21	0.136
2 x 4/7	3411310206	0.197	5.00	0.479	12.17	0.654	16.61	294	437	34	5.09	0.129
2 x 6/9	3411310207	0.218	5.54	0.521	13.23	0.698	17.73	362	539	44	3.39	0.119
2 x 10/11	3411310208	0.277	7.04	0.657	16.69	0.846	21.49	509	757	61	1.95	0.104
2 x 16/16	3411310209	0.345	8.76	0.769	19.53	0.967	24.56	685	1019	82	1.24	0.100
2 x 25/16	3411310210	0.420	10.67	0.928	23.57	1.119	28.42	956	1422	108	0.795	0.100

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3411310109BL)
For yellow-green ground, add "E" to end of Part Number (example: 3409310109E)

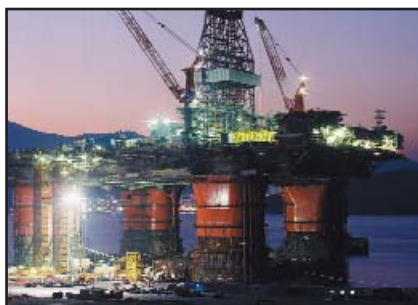
SHF2 BFOU P5 Power and Control Cable

See **page 1** for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	SHF2 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
3 x 1.5/5	3411310304	0.152	3.86	0.412	10.46	0.574	14.58	221	329	16	13.70	0.147
3 x 2.5/7	3411310305	0.174	4.42	0.453	11.51	0.619	15.72	267	397	21	8.21	0.136
3 x 4/7	3411310306	0.197	5.00	0.509	12.93	0.679	17.25	338	503	28	5.09	0.129
3 x 6/9	3411310307	0.218	5.54	0.555	17.81	0.727	18.47	398	592	36	3.39	0.119
3 x 10/11	3411310308	0.277	7.04	0.701	20.88	0.901	22.89	603	897	50	1.95	0.104
3 x 16/16	3411310309	0.345	8.76	0.822	25.10	1.007	25.58	812	1208	67	1.24	0.100
3 x 25/16	3411310310	0.420	10.67	0.988	26.85	1.202	30.53	1206	1794	89	0.795	0.100
3 x 35/16	3411310311	0.460	11.68	1.057	27.84	1.274	32.36	1413	2102	110	0.565	0.098
3 x 50/25	3411310312	0.507	12.88	1.197	30.40	1.443	36.65	1982	2949	137	0.391	0.093
3 x 70/35	3411310313	0.552	14.02	1.293	32.84	1.550	39.37	2664	3964	169	0.270	0.092
3 x 95/50	3411310314	0.637	16.18	1.476	37.49	1.750	44.45	3208	4773	205	0.195	0.091
3 x 120	3411310315	0.698	17.73	1.608	40.84	1.869	47.47	3719	5533	237	0.154	0.088
3 x 120+70E	3411310315E	0.698	17.73	1.805	45.85	2.100	53.34	4809	7155	237	0.154	0.088
3 x 150	3411310316	0.790	20.07	1.824	46.33	2.100	53.34	4669	6947	272	0.126	0.090
3 x 150+85E	3411310316E	0.790	20.07	2.046	51.97	2.359	59.92	6046	8996	272	0.126	0.090
3 x 185	3411310317	0.857	21.77	1.985	50.42	2.294	58.27	5688	8463	311	0.100	0.089
3 x 185+95E	3411310317E	0.857	21.77	2.207	56.06	2.534	64.36	7163	10658	311	0.100	0.089
3 x 240	3411310318	0.971	24.66	2.230	56.64	2.560	65.02	7233	10747	365	0.0762	0.087
3 x 240+120E	3411310318E	0.971	24.66	2.482	63.04	2.832	71.93	9092	13528	365	0.0762	0.087
4 x 1.5/7	3411310404	0.152	3.86	0.452	11.48	0.624	15.85	162	241	16	13.70	0.156
4 x 2.5/7	3411310405	0.174	4.42	0.493	12.52	0.661	16.79	319	475	21	8.21	0.145
4 x 4/9	3411310406	0.197	5.00	0.561	14.25	0.741	18.82	394	586	28	5.09	0.138
4 x 6/9	3411310407	0.218	5.54	0.611	15.52	0.975	20.22	483	719	36	3.39	0.127
4 x 10/11	3411310408	0.277	7.04	0.775	19.69	1.119	24.77	743	1106	50	1.95	0.113
4 x 16/16	3411310409	0.345	8.76	0.911	23.14	1.303	28.42	1104	1643	67	1.24	0.109
4 x 25/16	3411310410	0.420	10.67	1.101	27.97	1.424	33.10	1439	2141	89	0.795	0.108
4 x 35/16	3411310411	0.460	11.68	1.191	30.25	1.450	36.17	1752	2607	110	0.565	0.105
4 x 50/25	3411310412	0.541	13.74	1.328	33.73	1.587	40.31	2453	3650	137	0.391	0.110
4 x 70/35	3411310413	0.614	15.60	1.436	36.47	1.700	43.18	2923	4349	169	0.270	0.111
4 x 95/50	3411310414	0.704	17.88	1.658	42.11	1.940	49.28	3933	5852	205	0.195	0.109
4 x 120/60	3411310415	0.797	20.24	1.805	45.85	2.117	53.77	4906	7300	237	0.154	0.110
5 x 1.5/7	3411310504	0.152	3.86	0.497	12.62	0.674	17.12	301	448	-	13.70	-
7 x 1.5/9	3411310704	0.152	3.86	0.540	13.72	0.721	18.31	349	519	-	13.70	-
12 x 1.5/11	3411311204	0.152	3.86	0.717	18.21	0.913	23.19	542	806	-	13.70	-
19 x 1.5/11	3411311904	0.152	3.86	0.846	21.49	1.041	26.44	737	1097	-	13.70	-
24 x 1.5/16	3411312404	0.152	3.86	0.996	25.30	1.201	30.51	1046	1556	-	13.70	-
27 x 1.5/16	3411312704	0.152	3.86	1.038	26.37	1.263	32.08	1114	1658	-	13.70	-
37 x 1.5/16	3411313704	0.152	3.86	1.170	29.72	1.401	35.59	1298	1931	-	13.70	-
5 x 2.5/9	3411310505	0.174	4.42	0.547	13.89	0.727	18.47	366	545	-	8.21	-
7 x 2.5/9	3411310705	0.174	4.42	0.597	15.16	0.774	19.66	423	629	-	8.21	-
12 x 2.5/11	3411311205	0.174	4.42	0.794	20.17	0.996	25.30	665	989	-	8.21	-
19 x 2.5/16	3411311905	0.174	4.42	0.937	23.80	1.139	28.93	903	1344	-	8.21	-
24 x 2.5/16	3411312405	0.174	4.42	1.126	28.60	1.341	34.06	1156	1720	-	8.21	-
27 x 2.5/16	3411312705	0.174	4.42	1.151	29.24	1.384	35.15	1227	1826	-	8.21	-
37 x 2.5/16	3411313705	0.174	4.42	1.294	32.87	1.542	39.17	1612	2398	-	8.21	-

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3411310109BL)

For yellow-green ground, add "E" to end of Part Number (example: 3409310109E)



RFOU – Medium Voltage (MV) Power Cable – SHF2

Flame Retardant • Halogen-Free • Rated 90°C

Conductors

Flexible Class 5 (for sizes up to 35 sq. mm) or Class 2 (for sizes 50 sq. mm and larger) tinned copper per IEC 60228

Insulation

Fire resistant tape low smoke halogen-free EP meeting IEC 60092-354

Metallic Screen

Composite shield consisting of 0.0126" tinned copper wires braided with nylon providing shielded coverage meeting IEC 60092-354. The nylon is colored for easy phase identification (three conductor = black, blue, red) without the need to remove the shield to find an underlying colored tape.

Conductor Screen

A combination of semi-conducting tape and extruded thermosetting semi-conducting material meeting IEC60092-354

Insulation Screen

Semi-conducting tape, with overlap, for fast and easy termination meeting IEC60092-354

Earthing Conductor (optional)

Per IEC 60092-352

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-354

Armor

Basket weave tinned copper wire armor per IEC 60092-354

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2.

*Standard sheath color is red.
Other colors are available.*

Applications

AmerCable's NEK-MV medium voltage cables are for use aboard commercial ships, mobile offshore drilling units (MODUs), and fixed or floating offshore facilities.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-354 and IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count Class 5 (metric) conductors for sizes up to 35 sq. mm. For sizes larger than 50 sq. mm, Class 2 strand is used.

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)
- Voltage Rating – 3.6k/6V to 12/20kV

**Hawke
Gland Types**
See Page 1

**Stranding
Profile**
See Page 1



SHF2**RFOU P2 3.6/6kV MV Power Cable**

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	SHF2 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 10	3403510108RD	0.484	12.29	0.669	16.99	0.858	21.79	502	747	72	1.95	0.185
1 x 16	3403510109RD	0.525	13.34	0.710	18.03	0.901	22.89	573	853	96	1.24	0.173
1 x 25	3403510110RD	0.578	14.68	0.763	19.38	0.958	24.33	682	1015	127	0.795	0.162
1 x 35	3403510111RD	0.622	15.80	0.807	20.50	1.007	25.58	778	1158	157	0.565	0.155
1 x 50	3403510112RD	0.652	16.56	0.837	21.26	1.039	26.39	907	1350	196	0.391	0.153
1 x 70	3403510113RD	0.697	17.70	0.882	22.40	1.088	27.64	1019	1516	242	0.270	0.148
1 x 95	3403510114RD	0.773	19.63	0.958	24.33	1.170	29.72	1257	1870	293	0.195	0.140
1 x 120	3403510115RD	0.825	20.96	1.010	25.65	1.226	31.14	1450	2157	339	0.154	0.135
1 x 150	3403510116RD	0.901	22.89	1.103	28.02	1.328	33.73	1940	2887	389	0.126	0.131
1 x 185	3403510117RD	0.953	24.21	1.155	29.34	1.384	35.15	1984	2952	444	0.100	0.128
1 x 240	3403510118RD	1.048	26.62	1.264	32.11	1.515	38.48	2509	3733	522	0.0762	0.124
1 x 300	3403510119RD	1.143	29.03	1.359	34.52	1.623	41.22	3010	4479	601	0.0607	0.121
3 x 10/16	3403510308RD	0.484	12.29	1.380	35.05	1.641	41.68	1627	2421	50	1.95	0.156
3 x 16/16	3403510309RD	0.525	13.34	1.467	37.26	1.733	44.02	1887	2808	67	1.24	0.145
3 x 25/16	3403510310RD	0.578	14.68	1.598	40.59	1.874	47.60	2325	3459	89	0.795	0.136
3 x 35/15	3403510311RD	0.622	15.80	1.693	43.00	1.977	50.22	2643	3932	110	0.565	0.130
3 x 50/25	3403510312RD	0.652	16.56	1.758	44.65	2.048	52.02	3097	4608	137	0.391	0.128
3 x 70/35	3403510313RD	0.697	17.70	1.855	47.12	2.151	54.64	3527	5248	169	0.270	0.124
3 x 95/50	3403510314RD	0.773	19.63	2.035	51.69	2.348	59.64	4867	7242	205	0.195	0.118
3 x 120/60	3403510315RD	0.825	20.96	2.147	54.53	2.488	63.20	5751	8557	237	0.154	0.113
3 x 150/75	3403510316RD	0.901	22.89	2.311	58.70	2.666	67.72	6765	10066	272	0.126	0.109
3 x 185	3403510317RD	0.953	24.21	2.423	61.54	2.767	70.28	6884	10243	311	0.100	0.107
3 x 185+E	3403510317RDE	0.953	24.21	2.423	61.54	2.767	70.28	7526	11198	311	0.100	0.107
3 x 240	3403510318RD	1.048	26.62	2.675	67.95	3.040	77.22	8564	12742	365	0.0762	0.104
3 x 240+E	3403510318RDE	1.048	26.62	2.675	67.95	3.040	77.22	9379	13955	365	0.0762	0.104

SHF2**RFOU P3 6/10kV MV Power Cable**

Size mm2	SHF2 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3403610109RD	0.558	14.17	0.743	18.87	0.938	23.83	579	861	96	1.240	0.176
1 x 25	3403610110RD	0.611	15.52	0.796	20.22	0.996	25.30	726	1080	127	0.795	0.165
1 x 35	3403610111RD	0.655	16.64	0.840	21.34	1.044	26.52	818	1217	157	0.565	0.158
1 x 50	3403610112RD	0.686	17.40	0.870	22.10	1.074	27.28	946	1408	196	0.391	0.155
1 x 70	3403610113RD	0.730	18.54	0.915	23.24	1.125	28.58	1062	1580	242	0.270	0.150
1 x 95	3403610114RD	0.806	20.47	0.991	25.17	1.207	30.66	1301	1936	293	0.195	0.142
1 x 120	3403610115RD	0.858	21.79	1.060	26.92	1.280	32.51	1520	2262	339	0.154	0.138
1 x 150	3403610116RD	0.934	23.72	1.136	28.85	1.363	34.62	1992	2964	389	0.126	0.133
1 x 185	3403610117RD	0.986	25.04	1.188	30.18	1.432	36.37	2095	3117	444	0.100	0.130
1 x 240	3403610118RD	1.081	27.46	1.297	32.94	1.550	39.37	2555	3802	522	0.0762	0.126
1 x 300	3403610119RD	0.901	22.89	1.393	35.38	1.656	42.06	3059	4551	601	0.0607	0.122
3 x 16/16	3403610309RD	0.558	14.47	1.555	39.50	1.827	46.41	2066	3074	67	1.240	0.149
3 x 25/16	3403610310RD	0.611	15.52	1.669	42.39	1.952	49.58	2472	3678	89	0.795	0.139
3 x 35/16	3403610311RD	0.655	16.64	1.764	44.81	2.055	52.20	2818	4193	110	0.565	0.133
3 x 50/25	3403610312RD	0.685	17.40	1.829	46.46	2.125	53.98	3259	4849	137	0.391	0.132
3 x 70/35	3403610313RD	0.730	18.54	1.943	49.35	2.248	57.10	3751	5581	169	0.270	0.127
3 x 95/50	3403610314RD	0.806	20.47	2.106	53.49	2.440	61.98	4690	6978	205	0.195	0.121
3 x 120/60	3403610315RD	0.858	21.79	2.220	56.39	2.567	65.20	5975	8890	237	0.154	0.116
3 x 150/75	3403610316RD	0.934	23.72	2.382	60.50	2.741	69.62	6951	10342	272	0.126	0.112
3 x 185	3403610317RD	0.986	25.04	2.494	63.35	2.845	72.26	7102	10567	311	0.100	0.109
3 x 185+E	3403610317RDE	0.986	25.04	2.494	63.35	2.845	72.26	7758	11543	311	0.100	0.109
3 x 240	3403610318RD	1.081	27.46	2.746	69.75	3.117	79.17	8808	13105	365	0.0762	0.106
3 x 240+E	3403610318RDE	1.081	27.46	2.746	69.75	3.117	79.17	9622	14316	365	0.0762	0.106

SHF2

RFOU P4 8.7/15kV MV Power Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	SHF2 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 25	3403710110RD	0.669	17.75	0.886	22.50	1.092	27.74	815	1213	127	0.795	0.172
1 x 35	3403710111RD	0.743	18.87	0.930	23.62	1.140	28.96	908	1351	157	0.565	0.164
1 x 50	3403710112RD	0.773	19.63	0.960	24.38	1.174	29.82	1049	1561	196	0.391	0.162
1 x 70	3403710113RD	0.818	20.78	1.005	25.53	1.221	31.01	1182	1759	242	0.270	0.156
1 x 95	3403710114RD	0.894	22.71	1.098	27.89	1.323	33.60	1445	2150	293	0.195	0.149
1 x 120	3403710115RD	0.946	24.03	1.150	29.21	1.392	35.36	1707	2540	339	0.154	0.144
1 x 150	3403710116RD	1.022	25.96	1.240	31.50	1.491	37.87	2012	2994	389	0.126	0.139
1 x 185	3403710117RD	1.074	27.28	1.292	32.82	1.547	39.29	2264	3369	444	0.100	0.136
1 x 240	3403710118RD	1.169	29.69	1.387	35.23	1.653	41.99	2620	3898	522	0.0762	0.131
1 x 300	3403710119RD	1.264	32.11	1.499	38.07	1.767	44.88	3264	4856	601	0.0607	0.127
3 x 25/16	3403710310RD	0.699	17.75	1.863	47.32	1.932	49.07	2449	3644	89	0.795	0.148
3 x 35/16	3403710311RD	0.743	18.87	1.975	50.17	2.282	57.96	3328	4952	110	0.565	0.141
3 x 50/25	3403710312RD	0.773	19.63	2.040	51.82	2.353	59.77	3781	5626	137	0.391	0.140
3 x 70/35	3403710313RD	0.818	20.78	2.137	54.28	2.458	62.43	4269	6352	169	0.270	0.135
3 x 95/50	3403710314RD	0.894	22.71	2.300	58.42	2.653	67.39	4564	6791	205	0.195	0.128
3 x 120/60	3403710315RD	0.946	24.03	2.412	61.26	2.775	70.49	6134	9127	237	0.154	0.123
3 x 150/75	3403710316RD	1.022	25.96	2.623	66.62	3.003	76.28	6918	10293	272	0.126	0.119
3 x 185	3403710317RD	1.074	27.28	2.735	69.47	3.108	78.94	7935	11806	311	0.100	0.116
3 x 185+E	3403710317RDE	1.074	27.28	2.735	69.47	3.108	78.94	8591	12782	311	0.100	0.116
3 x 240	3403710318RD	1.169	29.69	2.940	74.68	3.328	84.53	9469	14089	365	0.0762	0.112
3 x 240+E	3403710318RDE	1.169	29.69	2.940	74.68	3.328	84.53	10283	15300	365	0.0762	0.112

SHF2

RFOU P19 12/20kV MV Power Cable

Size mm2	SHF2 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 35	3403810111RD	0.743	18.87	0.930	23.62	1.140	28.96	908	1351	157	0.565	0.164
1 x 50	3403810112RD	0.856	21.74	1.042	26.47	1.263	32.08	1153	1716	196	0.391	0.168
1 x 70	3403810113RD	0.901	22.89	1.104	28.04	1.329	33.76	1315	1957	242	0.270	0.163
1 x 95	3403810114RD	0.977	24.82	1.180	29.97	1.424	36.17	1625	2418	293	0.195	0.155
1 x 120	3403810115RD	1.029	26.14	1.246	31.65	1.498	38.05	1854	2759	339	0.154	0.150
1 x 150	3403810116RD	1.105	28.07	1.322	33.58	1.579	40.11	2145	3192	389	0.126	0.144
1 x 185	3403810117RD	1.157	29.39	1.374	34.90	1.635	41.53	2404	3577	444	0.100	0.140
1 x 240	3403810118RD	1.253	31.83	1.470	37.34	1.736	44.09	2871	4272	522	0.0762	0.135
1 x 300	3403810119RD	1.348	34.24	1.582	40.18	1.856	47.14	3415	5081	601	0.0607	0.131
3 x 35/16	3403810311RD	0.743	18.87	1.975	50.17	2.282	57.96	3317	4935	110	0.565	0.148
3 x 50/25	3403810312RD	0.856	21.74	2.219	56.36	2.547	64.69	4254	6329	137	0.391	0.147
3 x 70/35	3403810313RD	0.901	22.89	2.314	58.78	2.650	67.31	4760	7082	169	0.270	0.141
3 x 95/50	3403810314RD	0.977	24.82	2.478	62.94	2.828	71.83	5662	8424	205	0.195	0.134
3 x 120/60	3403810315RD	1.029	26.14	2.637	66.98	3.019	77.68	6685	9947	237	0.154	0.129
3 x 150/75	3403810316RD	1.105	28.07	2.801	71.15	3.195	81.15	7846	11674	272	0.126	0.124
3 x 185	3403810317RD	1.157	29.39	2.916	74.07	3.304	83.92	8520	12677	311	0.100	0.121
3 x 185+G	3403810317RDE	1.157	29.39	2.916	74.07	3.304	83.92	9177	13654	311	0.100	0.121
3 x 240	3403810318RD	1.253	31.83	3.120	79.25	3.524	89.51	10191	15163	365	0.0762	0.117
3 x 240+G	3403810318RDE	1.253	31.83	3.120	79.25	3.524	89.51	11007	16377	365	0.0762	0.117

AmerCable

NEK 606

Premium-Level High Performance IEC Cables



AmerCable
INCORPORATED

The Global Cable Solutions Company

RFOU (i) S1/S5 250V Instrumentation Cable – NEK 606

Flame Retardant • Individual Screen • Halogen-Free • Mud Resistant • Rated 90°C

Pairs/Triads

Each pair/triad is twisted with a bare tinned drainwire and shielded with a poly/copper tape to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2/SHF Mud.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile
See Page 1

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 0.75	3406230102GR	0.095	2.41	0.285	7.24	0.435	11.05	128	190
2 x 2 x 0.75	3406230202GR	0.095	2.41	0.429	10.90	0.591	15.01	250	372
4 x 2 x 0.75	3406230402GR	0.095	2.41	0.500	12.70	0.670	17.02	324	482
7 x 2 x 0.75	3406230702GR	0.095	2.41	0.632	16.05	0.809	20.55	462	687
8 x 2 x 0.75	3406230802GR	0.095	2.41	0.652	16.56	0.835	21.21	503	748
12 x 2 x 0.75	3406231202GR	0.095	2.41	0.805	20.45	0.988	25.10	690	1027
16 x 2 x 0.75	3406231602GR	0.095	2.41	0.890	22.61	1.098	27.89	876	1303
19 x 2 x 0.75	3406231902GR	0.095	2.41	0.974	24.74	1.188	30.18	992	1476
24 x 2 x 0.75	3406232402GR	0.095	2.41	1.129	28.68	1.375	34.93	1202	1788
32 x 2 x 0.75	3406233202GR	0.095	2.41	1.248	31.70	1.499	38.07	1566	2330
1 x 2 x 1.0	3406230103GR	0.103	2.62	0.301	7.65	0.451	11.46	141	210
2 x 2 x 1.0	3406230203GR	0.103	2.62	0.455	11.56	0.621	15.77	274	408
4 x 2 x 1.0	3406230403GR	0.103	2.62	0.531	13.49	0.703	17.86	356	530
7 x 2 x 1.0	3406230703GR	0.103	2.62	0.674	17.12	0.853	21.67	508	756
8 x 2 x 1.0	3406230803GR	0.103	2.62	0.695	17.65	0.881	22.38	570	848
12 x 2 x 1.0	3406231203GR	0.103	2.62	0.851	21.62	1.047	26.59	766	1140
16 x 2 x 1.0	3406231603GR	0.103	2.62	0.952	24.18	1.154	29.31	938	1396
19 x 2 x 1.0	3406231903GR	0.103	2.62	1.042	26.47	1.248	31.70	1064	1583
24 x 2 x 1.0	3406232403GR	0.103	2.62	1.208	30.68	1.436	36.47	1319	1963
32 x 2 x 1.0	3406233203GR	0.103	2.62	1.336	33.93	1.581	40.16	1718	2556

* Gray sheath is standard. For Blue sheath, put "BL" at end of part Number (example: 3406230102BL)

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

0.75 mm² Pairs or Triads
 Capacitance = 104 nF/km
 Inductance = 0.71 mH/km
 Resistance = 26.7 ohms/km
1.0 mm² Pairs or Triads
 Capacitance = 116 nF/km
 Inductance = 0.67 mH/km
 Resistance = 20.0 ohms/km
1.5 mm² Pairs or Triads
 Capacitance = 117 nF/km
 Inductance = 0.67 mH/km
 Resistance = 13.7 ohms/km
2.5 mm² Pairs or Triads
 Capacitance = 135 nF/km
 Inductance = 0.63 mH/km
 Resistance = 8.21 ohms/km

Size mm ²	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)
1 x 2 x 1.5	3406230104GR	0.121	3.07	0.337	8.56	0.490	12.45	176	262
2 x 2 x 1.5	3406230204GR	0.121	3.07	0.515	13.08	0.688	17.48	381	567
4 x 2 x 1.5	3406230404GR	0.121	3.07	0.603	15.32	0.783	19.89	457	680
7 x 2 x 1.5	3406230704GR	0.121	3.07	0.769	19.53	0.958	24.33	687	1022
8 x 2 x 1.5	3406230804GR	0.121	3.07	0.802	20.37	0.991	25.17	727	1082
12 x 2 x 1.5	3406231204GR	0.121	3.07	0.976	24.79	1.191	30.25	1001	1489
16 x 2 x 1.5	3406231604GR	0.121	3.07	1.109	28.17	1.310	33.27	1227	1826
19 x 2 x 1.5	3406231904GR	0.121	3.07	1.214	30.84	1.403	35.64	1334	1985
24 x 2 x 1.5	3406232404GR	0.121	3.07	1.387	35.23	1.663	42.24	1738	2586
32 x 2 x 1.5	3406233204GR	0.121	3.07	1.554	39.47	1.815	46.10	2379	3540
1 x 2 x 2.5	3406230105GR	0.143	3.63	0.375	9.530	0.534	13.56	202	301
2 x 2 x 2.5	3406230205GR	0.143	3.63	0.579	14.71	0.756	19.20	480	714
4 x 2 x 2.5	3406230405GR	0.143	3.63	0.681	17.30	0.866	22.00	612	911
7 x 2 x 2.5	3406230705GR	0.143	3.63	0.872	22.15	1.068	27.13	961	1430
8 x 2 x 2.5	3406230805GR	0.143	3.63	0.901	22.89	1.105	28.07	994	1479
12 x 2 x 2.5	3406231205GR	0.143	3.63	1.126	28.60	1.343	34.11	1435	2135
16 x 2 x 2.5	3406231605GR	0.143	3.63	1.261	32.03	1.503	38.18	1847	2748
19 x 2 x 2.5	3406231905GR	0.143	3.63	1.381	35.08	1.644	41.76	2136	3178
24 x 2 x 2.5	3406232405GR	0.143	3.63	1.597	40.56	1.898	48.21	2335	3474
32 x 2 x 2.5	3406233205GR	0.143	3.63	1.770	44.96	2.086	52.98	3114	4633
1 x 3 x 0.75	3406270102GR	0.095	2.41	0.299	7.59	0.457	11.61	145	216
2 x 3 x 0.75	3406270202GR	0.095	2.41	0.522	13.26	0.690	17.53	309	460
4 x 3 x 0.75	3406270402GR	0.095	2.41	0.611	15.52	0.786	19.96	398	592
7 x 3 x 0.75	3406270702GR	0.095	2.41	0.738	18.75	0.921	23.39	550	818
8 x 3 x 0.75	3406270802GR	0.095	2.41	0.823	20.90	1.012	25.70	656	976
12 x 3 x 0.75	3406271202GR	0.095	2.41	0.989	25.12	1.186	30.12	848	1262
16 x 3 x 0.75	3406271602GR	0.095	2.41	1.124	28.55	1.330	33.78	1061	1579
19 x 3 x 0.75	3406271902GR	0.095	2.41	1.189	30.20	1.412	35.86	1236	1839
24 x 3 x 0.75	3406272402GR	0.095	2.41	1.406	35.71	1.657	42.09	1515	2254
32 x 3 x 0.75	3406273202GR	0.095	2.41	1.575	40.01	1.826	46.38	1931	2873
1 x 3 x 1.0	3406270103GR	0.103	2.62	0.316	8.03	0.470	11.94	158	235
2 x 3 x 1.0	3406270203GR	0.103	2.62	0.555	14.10	0.725	18.42	371	552
4 x 3 x 1.0	3406270403GR	0.103	2.62	0.652	16.56	0.828	21.03	454	676
7 x 3 x 1.0	3406270703GR	0.103	2.62	0.788	20.02	0.973	24.71	645	960
8 x 3 x 1.0	3406270803GR	0.103	2.62	0.874	22.20	1.066	27.08	876	1303
12 x 3 x 1.0	3406271203GR	0.103	2.62	1.058	26.87	1.262	32.05	993	1477
16 x 3 x 1.0	3406271603GR	0.103	2.62	1.203	30.56	1.428	36.27	1298	1931
19 x 3 x 1.0	3406271903GR	0.103	2.62	1.273	32.33	1.502	38.15	1452	2160
24 x 3 x 1.0	3406272403GR	0.103	2.62	1.523	38.68	1.724	43.79	1820	2708
32 x 3 x 1.0	3406273203GR	0.103	2.62	1.598	40.59	1.840	46.74	2071	3081
1 x 3 x 1.5	3406270104GR	0.121	3.07	0.353	8.97	0.509	12.930	187	278
2 x 3 x 1.5	3406270204GR	0.121	3.07	0.630	16.00	0.806	20.470	403	600
4 x 3 x 1.5	3406270404GR	0.121	3.07	0.742	18.85	0.928	23.570	576	857
7 x 3 x 1.5	3406270704GR	0.121	3.07	0.867	22.02	1.093	27.760	799	1189
8 x 3 x 1.5	3406270804GR	0.121	3.07	0.984	24.99	1.187	30.150	858	1277
12 x 3 x 1.5	3406271204GR	0.121	3.07	1.231	31.27	1.461	37.110	1270	1890
16 x 3 x 1.5	3406271604GR	0.121	3.07	1.379	35.03	1.621	41.170	1570	2336
19 x 3 x 1.5	3406271904GR	0.121	3.07	1.404	35.66	1.652	41.960	1835	2730
24 x 3 x 1.5	3406272404GR	0.121	3.07	1.680	42.67	1.927	48.950	2304	3428
32 x 3 x 1.5	3406273204GR	0.121	3.07	1.932	49.07	2.210	56.130	2893	4304
1 x 3 x 2.5	3406270105GR	0.143	3.63	0.395	10.03	0.560	14.22	247	368
2 x 3 x 2.5	3406270205GR	0.143	3.63	0.725	18.42	0.908	23.06	562	836
4 x 3 x 2.5	3406270405GR	0.143	3.63	0.856	21.74	1.501	38.13	801	1192
7 x 3 x 2.5	3406270705GR	0.143	3.63	1.043	26.49	1.251	31.78	1170	1741
8 x 3 x 2.5	3406270805GR	0.143	3.63	1.146	29.11	1.361	34.57	1298	1931
12 x 3 x 2.5	3406271205GR	0.143	3.63	1.428	36.27	1.662	42.21	1906	2836
16 x 3 x 2.5	3406271605GR	0.143	3.63	1.619	41.12	1.882	47.80	2304	3726
19 x 3 x 2.5	3406271905GR	0.143	3.63	1.714	43.54	1.984	50.39	2598	4220
24 x 3 x 2.5	3406272405GR	0.143	3.63	2.049	52.04	2.360	59.94	3209	4775
32 x 3 x 2.5	3406273205GR	0.143	3.63	2.273	57.73	2.604	66.14	3861	6806

RFOU (c) S2/S6 250V Instrumentation Cable – NEK 606

Flame Retardant • Collective Screen • Halogen-Free • Mud Resistant • Rated 90°C

Pairs/Triads

Each pair/triad is twisted together and cabled with an overall poly/copper shield to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2/SHF Mud.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types

See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile
See Page 1

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)
1 x 2 x 0.75	3406230102GR	0.095	2.41	0.285	7.24	0.435	11.05	128	190
2 x 2 x 0.75	3406240202GR	0.095	2.41	0.415	10.54	0.573	14.55	229	341
4 x 2 x 0.75	3406240402GR	0.095	2.41	0.481	12.22	0.645	16.38	284	423
7 x 2 x 0.75	3406240702GR	0.095	2.41	0.597	15.16	0.771	19.58	384	571
8 x 2 x 0.75	3406240802GR	0.095	2.41	0.621	15.77	0.806	20.47	414	616
12 x 2 x 0.75	3406241202GR	0.095	2.41	0.750	19.05	0.946	24.03	562	836
16 x 2 x 0.75	3406241602GR	0.095	2.41	0.837	21.26	1.031	26.19	662	985
19 x 2 x 0.75	3406241902GR	0.095	2.41	0.915	23.24	1.125	28.58	758	1128
24 x 2 x 0.75	3406242402GR	0.095	2.41	1.044	26.52	1.280	32.51	897	1335
32 x 2 x 0.75	3406243202GR	0.095	2.41	1.172	29.77	1.403	35.64	1150	1711
1 x 2 x 1.0	3406230103GR	0.103	2.62	0.301	7.65	0.451	11.46	141	210
2 x 2 x 1.0	3406240203GR	0.103	2.62	0.439	11.15	0.602	15.29	252	375
4 x 2 x 1.0	3406240403GR	0.103	2.62	0.511	12.98	0.673	17.09	315	469
7 x 2 x 1.0	3406240703GR	0.103	2.62	0.613	15.57	0.816	20.73	453	674
8 x 2 x 1.0	3406240803GR	0.103	2.62	0.645	16.38	0.846	21.49	471	701
12 x 2 x 1.0	3406241203GR	0.103	2.62	0.812	20.62	1.006	25.55	645	960
16 x 2 x 1.0	3406241603GR	0.103	2.62	0.906	23.01	1.101	27.97	772	1149
19 x 2 x 1.0	3406241903GR	0.103	2.62	0.958	24.33	1.187	30.15	872	1297
24 x 2 x 1.0	3406242403GR	0.103	2.62	1.147	29.13	1.369	34.77	1061	1579
32 x 2 x 1.0	3406243203GR	0.103	2.62	1.268	32.21	1.498	38.05	1384	2059

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3406230102BL)

0.75 mm² Pairs or Triads
 Capacitance = 64 nF/km
 Inductance = 0.71 mH/km
 Resistance = 26.7 ohms/km
1.0 mm² Pairs or Triads
 Capacitance = 68 nF/km
 Inductance = 0.67 mH/km
 Resistance = 20.0 ohms/km
1.5 mm² Pairs or Triads
 Capacitance = 69 nF/km
 Inductance = 0.69 mH/km
 Resistance = 13.7 ohms/km
2.5 mm² Pairs or Triads
 Capacitance = 76 nF/km
 Inductance = 0.63 mH/km
 Resistance = 8.21 ohms/km

Size mm ²	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3406230104GR	0.121	3.07	0.337	8.56	0.490	12.45	176	262
2 x 2 x 1.5	3406240204GR	0.121	3.07	0.505	12.83	0.668	16.97	346	515
4 x 2 x 1.5	3406240404GR	0.121	3.07	0.578	14.68	0.754	19.15	419	623
7 x 2 x 1.5	3406240704GR	0.121	3.07	0.740	18.80	0.920	23.37	565	841
8 x 2 x 1.5	3406240804GR	0.121	3.07	0.764	19.41	0.953	24.21	611	909
12 x 2 x 1.5	3406241204GR	0.121	3.07	0.940	23.88	1.142	29.01	828	1232
16 x 2 x 1.5	3406241604GR	0.121	3.07	1.050	26.67	1.251	31.78	1025	1525
19 x 2 x 1.5	3406241904GR	0.121	3.07	1.162	29.51	1.386	35.20	1204	1791
24 x 2 x 1.5	3406242404GR	0.121	3.07	1.326	33.68	1.613	40.97	1394	2812
32 x 2 x 1.5	3406243204GR	0.121	3.07	1.485	37.72	1.747	44.37	1909	3485
1 x 2 x 2.5	3406230105GR	0.143	3.63	0.381	9.68	0.534	13.56	202	301
2 x 2 x 2.5	3406240205GR	0.143	3.63	0.573	14.55	0.736	18.69	386	574
4 x 2 x 2.5	3406240405GR	0.143	3.63	0.680	17.27	0.835	21.21	511	760
7 x 2 x 2.5	3406240705GR	0.143	3.63	0.872	22.15	1.044	26.52	756	1125
8 x 2 x 2.5	3406240805GR	0.143	3.63	0.910	23.11	1.080	27.43	807	1201
12 x 2 x 2.5	3406241205GR	0.143	3.63	1.126	28.60	1.311	33.30	1143	1701
16 x 2 x 2.5	3406241605GR	0.143	3.63	1.261	32.03	1.465	37.21	1467	2183
19 x 2 x 2.5	3406241905GR	0.143	3.63	1.381	35.08	1.589	40.36	1663	2474
24 x 2 x 2.5	3406242405GR	0.143	3.63	1.571	39.90	1.847	46.91	2043	3040
32 x 2 x 2.5	3406243205GR	0.143	3.63	1.733	44.02	2.001	50.83	2607	3879
1 x 3 x 0.75	3406270102GR	0.095	2.41	0.299	7.59	0.457	11.61	145	216
2 x 3 x 0.75	3406280202GR	0.095	2.41	0.497	12.62	0.663	16.84	283	421
4 x 3 x 0.75	3406280402GR	0.095	2.41	0.582	14.78	0.752	19.10	355	528
7 x 3 x 0.75	3406280702GR	0.095	2.41	0.701	17.81	0.880	22.35	488	726
8 x 3 x 0.75	3406280802GR	0.095	2.41	0.786	19.96	0.972	24.69	550	818
12 x 3 x 0.75	3406281202GR	0.095	2.41	0.937	23.80	1.131	28.73	756	1125
16 x 3 x 0.75	3406281602GR	0.095	2.41	1.049	26.64	1.251	31.78	898	1336
19 x 3 x 0.75	3406281902GR	0.095	2.41	1.127	28.63	1.333	33.86	1023	1522
24 x 3 x 0.75	3406282402GR	0.095	2.41	1.331	33.81	1.568	39.83	1235	1838
32 x 3 x 0.75	3406283202GR	0.095	2.41	1.474	37.44	1.716	43.59	1626	2419
1 x 3 x 1.0	3406270103GR	0.103	2.62	0.316	8.03	0.470	11.94	158	235
2 x 3 x 1.0	3406280203GR	0.103	2.62	0.537	13.64	0.703	17.86	348	518
4 x 3 x 1.0	3406280403GR	0.103	2.62	0.629	15.98	0.800	20.32	413	614
7 x 3 x 1.0	3406280703GR	0.103	2.62	0.759	19.28	0.934	23.72	563	838
8 x 3 x 1.0	3406280803GR	0.103	2.62	0.838	21.29	1.025	26.04	734	1152
12 x 3 x 1.0	3406281203GR	0.103	2.62	1.014	25.76	1.206	30.63	859	1278
16 x 3 x 1.0	3406281603GR	0.103	2.62	1.152	29.26	1.353	34.37	1077	1602
19 x 3 x 1.0	3406281903GR	0.103	2.62	1.218	30.94	1.436	36.47	1253	1864
24 x 3 x 1.0	3406282403GR	0.103	2.62	1.440	36.58	1.697	43.10	1498	2229
32 x 3 x 1.0	3406283203GR	0.103	2.62	1.612	40.94	1.857	47.17	1957	2912
1 x 3 x 1.5	3406270104GR	0.121	3.07	0.353	8.97	0.509	12.93	187	278
2 x 3 x 1.5	3406280204GR	0.121	3.07	0.614	15.60	0.783	19.89	427	635
4 x 3 x 1.5	3406280404GR	0.121	3.07	0.721	18.31	0.909	23.09	535	796
7 x 3 x 1.5	3406280704GR	0.121	3.07	0.874	22.20	1.059	26.90	744	1107
8 x 3 x 1.5	3406280804GR	0.121	3.07	0.953	24.21	1.147	29.13	824	1226
12 x 3 x 1.5	3406281204GR	0.121	3.07	1.191	30.25	1.241	31.52	943	1403
16 x 3 x 1.5	3406281604GR	0.121	3.07	1.333	33.86	1.548	39.32	1437	2138
19 x 3 x 1.5	3406281904GR	0.121	3.07	1.410	35.81	1.645	41.78	1667	2480
24 x 3 x 1.5	3406282404GR	0.121	3.07	1.687	42.85	1.928	48.97	2095	3117
32 x 3 x 1.5	3406283204GR	0.121	3.07	1.869	47.47	2.134	54.20	2669	3971
1 x 3 x 2.5	3406270105GR	0.143	3.63	0.401	10.19	0.567	14.40	247	368
2 x 3 x 2.5	3406280205GR	0.143	3.63	0.709	18.01	0.882	22.40	508	756
4 x 3 x 2.5	3406280405GR	0.143	3.63	0.836	21.23	1.017	25.83	693	1031
7 x 3 x 2.5	3406280705GR	0.143	3.63	1.016	25.81	1.208	30.68	1007	1498
8 x 3 x 2.5	3406280805GR	0.143	3.63	1.126	28.60	1.312	33.32	1369	2037
12 x 3 x 2.5	3406281205GR	0.143	3.63	1.355	34.42	1.582	40.18	1541	2293
16 x 3 x 2.5	3406281605GR	0.143	3.63	1.572	39.93	1.802	45.77	2029	3019
19 x 3 x 2.5	3406281905GR	0.143	3.63	1.664	42.27	1.901	48.29	2278	3389
24 x 3 x 2.5	3406282405GR	0.143	3.63	1.988	50.50	2.295	58.29	2891	4301
32 x 3 x 2.5	3406283205GR	0.143	3.63	2.204	55.98	2.473	62.81	3690	5490

BFOU (i) S3/S7 250V Instrumentation Cable – NEK 606

Fire Resistant • Individual Screen • Halogen-Free • Mud Resistant • Rated 90°C

Pairs/Triads

Each pair/triad is twisted with a bare tinned drainwire and shielded with a poly/copper tape to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2/SHF Mud.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Fire resistant tape and low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types
See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile
See Page 1

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 0.75	3415230102GR	0.109	2.77	0.312	7.92	0.462	11.73	148	220
2 x 2 x 0.75	3415230202GR	0.109	2.77	0.473	12.01	0.635	16.13	288	429
4 x 2 x 0.75	3415230402GR	0.109	2.77	0.552	14.02	0.735	18.67	397	591
7 x 2 x 0.75	3415230702GR	0.109	2.77	0.667	16.94	0.861	21.87	541	805
8 x 2 x 0.75	3415230802GR	0.109	2.77	0.724	18.39	0.922	23.42	604	899
12 x 2 x 0.75	3415231202GR	0.109	2.77	0.888	22.56	1.103	28.02	849	1263
16 x 2 x 0.75	3415231602GR	0.109	2.77	0.986	25.04	1.184	30.07	927	1379
19 x 2 x 0.75	3415231902GR	0.109	2.77	1.053	26.75	1.283	32.59	1143	1701
24 x 2 x 0.75	3415232402GR	0.109	2.77	1.294	32.87	1.537	39.04	1327	1974
32 x 2 x 0.75	3415233202GR	0.109	2.77	1.385	35.18	1.610	40.89	1620	2410
1 x 2 x 1.0	3415230103GR	0.114	2.90	0.322	8.18	0.472	11.99	160	238
2 x 2 x 1.0	3415230203GR	0.114	2.90	0.487	12.37	0.654	16.61	325	484
4 x 2 x 1.0	3415230403GR	0.114	2.90	0.570	14.48	0.743	18.87	406	604
7 x 2 x 1.0	3415230703GR	0.114	2.90	0.687	17.45	0.866	22.00	547	814
8 x 2 x 1.0	3415230803GR	0.114	2.90	0.747	18.97	0.932	23.67	611	909
12 x 2 x 1.0	3415231203GR	0.114	2.90	0.920	23.37	1.116	28.35	861	1281
16 x 2 x 1.0	3415231603GR	0.114	2.90	1.023	25.98	1.225	31.12	943	1403
19 x 2 x 1.0	3415231903GR	0.114	2.90	1.104	28.04	1.323	33.60	1198	1782
24 x 2 x 1.0	3415232403GR	0.114	2.90	1.313	33.35	1.534	38.96	1407	2093
32 x 2 x 1.0	3415233203GR	0.114	2.90	1.462	37.13	1.761	44.73	1865	2775

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3415230102BL)

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Oil & Gas Cables

0.75 mm² Pairs or Triads

Capacitance = 83 nF/km
 Inductance = 0.80 mH/km
 Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads

Capacitance = 94 nF/km
 Inductance = 0.75 mH/km
 Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads

Capacitance = 98 nF/km
 Inductance = 0.74 mH/km
 Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads

Capacitance = 117 nF/km
 Inductance = 0.67 mH/km
 Resistance = 8.21 ohms/km

Size mm ²	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3415230104GR	0.131	3.33	0.354	8.99	0.507	12.88	172	256
2 x 2 x 1.5	3415230204GR	0.131	3.33	0.543	13.79	0.715	18.16	367	546
4 x 2 x 1.5	3415230404GR	0.131	3.33	0.638	16.21	0.816	20.73	477	710
7 x 2 x 1.5	3415230704GR	0.131	3.33	0.825	20.96	1.014	25.76	759	1129
8 x 2 x 1.5	3415230804GR	0.131	3.33	0.891	22.63	1.099	27.91	857	1275
12 x 2 x 1.5	3415231204GR	0.131	3.33	1.034	26.26	1.242	31.55	1016	1512
16 x 2 x 1.5	3415231604GR	0.131	3.33	1.259	31.98	1.375	34.93	1223	1820
19 x 2 x 1.5	3415231904GR	0.131	3.33	1.285	32.64	1.504	38.20	1532	2279
24 x 2 x 1.5	3415232404GR	0.131	3.33	1.483	37.67	1.737	44.12	2035	3028
32 x 2 x 1.5	3415233204GR	0.131	3.33	1.646	41.81	1.907	48.44	2487	3700
1 x 2 x 2.5	3415230105GR	0.153	3.89	0.392	9.96	0.557	14.15	210	312
2 x 2 x 2.5	3415230205GR	0.153	3.89	0.619	15.72	0.806	20.47	529	787
4 x 2 x 2.5	3415230405GR	0.153	3.89	0.716	18.19	0.901	22.89	591	879
7 x 2 x 2.5	3415230705GR	0.153	3.89	0.939	23.85	1.135	28.83	987	1469
8 x 2 x 2.5	3415230805GR	0.153	3.89	1.003	25.48	1.207	30.66	1135	1689
12 x 2 x 2.5	3415231205GR	0.153	3.89	1.169	29.69	1.386	35.20	1301	1936
16 x 2 x 2.5	3415231605GR	0.153	3.89	1.353	34.37	1.582	40.18	1847	2748
19 x 2 x 2.5	3415231905GR	0.153	3.89	1.504	38.20	1.753	44.53	2199	3272
24 x 2 x 2.5	3415232405GR	0.153	3.89	1.714	43.54	2.007	50.98	2786	4145
32 x 2 x 2.5	3415233205GR	0.153	3.89	1.902	48.31	2.180	55.37	3203	4766
1 x 3 x 0.75	3415270102GR	0.109	2.77	0.327	8.31	0.479	12.17	151	225
2 x 3 x 0.75	3415270202GR	0.109	2.77	0.568	14.43	0.736	18.69	336	500
4 x 3 x 0.75	3415270402GR	0.109	2.77	0.668	16.97	0.842	21.39	464	690
7 x 3 x 0.75	3415270702GR	0.109	2.77	0.809	20.55	0.991	25.17	637	948
8 x 3 x 0.75	3415270802GR	0.109	2.77	0.885	22.48	1.074	27.28	773	1150
12 x 3 x 0.75	3415271202GR	0.109	2.77	1.086	27.58	1.286	32.66	1018	1515
16 x 3 x 0.75	3415271602GR	0.109	2.77	1.235	31.37	1.454	36.93	1302	1937
19 x 3 x 0.75	3415271902GR	0.109	2.77	1.306	33.17	1.529	38.84	1423	2117
24 x 3 x 0.75	3415272402GR	0.109	2.77	1.606	40.79	1.833	46.56	1723	2564
32 x 3 x 0.75	3415273202GR	0.109	2.77	1.732	43.99	1.983	50.37	2353	3501
1 x 3 x 1.0	3415270103GR	0.114	3.51	0.338	8.59	0.492	12.50	175	260
2 x 3 x 1.0	3415270203GR	0.114	3.51	0.595	15.11	0.765	19.43	387	576
4 x 3 x 1.0	3415270403GR	0.114	3.51	0.706	17.93	0.883	22.43	509	757
7 x 3 x 1.0	3415270703GR	0.114	3.51	0.856	21.74	1.041	26.44	700	1042
8 x 3 x 1.0	3415270803GR	0.114	3.51	0.933	23.70	1.124	28.55	802	1193
12 x 3 x 1.0	3415271203GR	0.114	3.51	1.153	29.29	1.356	34.44	1063	1582
16 x 3 x 1.0	3415271603GR	0.114	3.51	1.293	32.84	1.505	38.23	1347	2004
19 x 3 x 1.0	3415271903GR	0.114	3.51	1.369	34.77	1.585	40.26	1502	2235
24 x 3 x 1.0	3415272403GR	0.114	3.51	1.669	42.39	1.917	48.69	1985	2953
32 x 3 x 1.0	3415273203GR	0.114	3.51	1.822	46.28	2.081	52.86	2537	3775
1 x 3 x 1.5	3415270104GR	0.131	3.33	0.375	9.53	0.530	13.46	210	312
2 x 3 x 1.5	3415270204GR	0.131	3.33	0.675	17.15	0.852	21.64	468	696
4 x 3 x 1.5	3415270404GR	0.131	3.33	0.497	12.62	0.977	24.82	631	939
7 x 3 x 1.5	3415270704GR	0.131	3.33	0.969	24.61	1.164	29.57	901	1341
8 x 3 x 1.5	3415270804GR	0.131	3.33	1.063	27.00	1.267	32.18	1012	1506
12 x 3 x 1.5	3415271204GR	0.131	3.33	1.325	33.66	1.546	39.27	1392	2071
16 x 3 x 1.5	3415271604GR	0.131	3.33	1.473	37.41	1.702	43.23	1601	2382
19 x 3 x 1.5	3415271904GR	0.131	3.33	1.590	40.39	1.839	46.71	2063	3070
24 x 3 x 1.5	3415272404GR	0.131	3.33	1.900	48.26	2.164	54.97	2498	3717
32 x 3 x 1.5	3415273204GR	0.131	3.33	2.107	53.52	2.385	60.58	3108	4624
1 x 3 x 2.5	3415270105GR	0.153	3.89	0.380	9.65	0.548	13.92	221	329
2 x 3 x 2.5	3415270205GR	0.153	3.89	0.727	18.47	0.908	23.06	572	851
4 x 3 x 2.5	3415270405GR	0.153	3.89	0.895	22.73	1.086	27.58	788	1172
7 x 3 x 2.5	3415270705GR	0.153	3.89	1.108	28.14	1.311	33.30	1193	1775
8 x 3 x 2.5	3415270805GR	0.153	3.89	1.209	30.71	1.423	36.14	1368	2035
12 x 3 x 2.5	3415271205GR	0.153	3.89	1.494	37.95	1.723	43.76	1798	2675
16 x 3 x 2.5	3415271605GR	0.153	3.89	1.718	43.64	1.975	50.17	2389	3555
19 x 3 x 2.5	3415271905GR	0.153	3.89	1.810	45.97	2.073	52.65	2666	3967
24 x 3 x 2.5	3415272405GR	0.153	3.89	2.170	55.12	2.450	62.23	3333	4959
32 x 3 x 2.5	3415273205GR	0.153	3.89	2.396	60.86	2.693	68.40	4100	6100

BFOU (c) S4/S8 250V Instrumentation Cable – NEK 606

Fire Resistant • Collective Screen • Halogen-Free • Mud Resistant • Rated 90°C

Pairs/Triads

Each pair/triad is twisted together and cabled with an overall poly/copper shield to provide 100% coverage

Core Identification:

Pair: Black - Light Blue
Triad: Black - Light Blue - Brown

Armor

Basket weave tinned copper wire armor per IEC 60092-353

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2/SHF Mud.

Standard sheath color is gray. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5 tinned copper per IEC 60228

Insulation

Fire resistant tape and low smoke halogen-free EP meeting IEC 60092-351

Hawke Gland Types

See Page 1

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Application

Designed for instrumentation, communication and public address/general alarm systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Flexibility: High strand count Class 5 (metric) conductors make this product more flexible and easier to install than standard IEC 60092-350 Series cables that use Class 2 conductors.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Stranding Profile

See Page 1

Size mm ²	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)
1 x 2 x 0.75	3415230102GR	0.109	2.77	0.340	7.92	0.462	11.73	148	220
2 x 2 x 0.75	3415240202GR	0.109	2.77	0.496	11.56	0.614	15.60	257	382
4 x 2 x 0.75	3415240402GR	0.109	2.77	0.570	13.46	0.696	17.68	324	482
7 x 2 x 0.75	3415240702GR	0.109	2.77	0.688	16.21	0.813	20.65	407	606
8 x 2 x 0.75	3415240802GR	0.109	2.77	0.749	17.58	0.871	22.12	488	726
12 x 2 x 0.75	3415241202GR	0.109	2.77	0.926	21.74	1.043	26.49	652	970
16 x 2 x 0.75	3415241602GR	0.109	2.77	1.035	26.80	1.149	29.18	806	1199
19 x 2 x 0.75	3415241902GR	0.109	2.77	1.104	25.91	1.245	31.62	954	1419
24 x 2 x 0.75	3415242402GR	0.109	2.77	1.334	30.94	1.426	36.22	1047	1558
32 x 2 x 0.75	3415243202GR	0.109	2.77	1.443	33.78	1.594	40.49	1496	2226
1 x 2 x 1.0	3415230103GR	0.114	2.90	0.342	8.18	0.472	11.99	160	238
2 x 2 x 1.0	3415240203GR	0.114	2.90	0.509	12.14	0.640	16.26	278	414
4 x 2 x 1.0	3415240403GR	0.114	2.90	0.593	14.15	0.725	18.42	361	537
7 x 2 x 1.0	3415240703GR	0.114	2.90	0.716	18.01	0.886	22.50	436	649
8 x 2 x 1.0	3415240803GR	0.114	2.90	0.780	18.26	0.902	22.91	529	787
12 x 2 x 1.0	3415241203GR	0.114	2.90	0.956	22.38	1.072	27.23	721	1073
16 x 2 x 1.0	3415241603GR	0.114	2.90	1.086	25.10	1.186	30.12	845	1257
19 x 2 x 1.0	3415241903GR	0.114	2.90	1.148	27.69	1.293	32.84	992	1476
24 x 2 x 1.0	3415242403GR	0.114	2.90	1.356	32.18	1.481	37.62	1158	1723
32 x 2 x 1.0	3415243203GR	0.114	2.90	1.518	35.56	1.636	41.55	1638	2437

* Gray sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3415230102BL)

NEK 606 BFOU (c) S4/S8 Instrumentation Cable



See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Oil & Gas Cables

0.75 mm² Pairs or Triads
Capacitance = 57 nF/km
Inductance = 0.80 mH/km
Resistance = 26.7 ohms/km

1.0 mm² Pairs or Triads
Capacitance = 60nF/km
Inductance = 0.75 mH/km
Resistance = 20.0 ohms/km

1.5 mm² Pairs or Triads
Capacitance = 61 nF/km
Inductance = 0.74 mH/km
Resistance = 13.7 ohms/km

2.5 mm² Pairs or Triads
Capacitance = 69 nF/km
Inductance = 0.67 mH/km
Resistance = 8.21 ohms/km

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Diameter (in)	Overall Cable Diameter (mm)	Cable Weight (lbs/ft)	Cable Weight (kg/km)
1 x 2 x 1.5	3415230104GR	0.131	3.58	0.354	8.99	0.507	12.88	172	256
2 x 2 x 1.5	3415240204GR	0.131	3.58	0.529	13.44	0.697	17.70	342	509
4 x 2 x 1.5	3415240404GR	0.131	3.58	0.620	15.75	0.797	20.24	449	668
7 x 2 x 1.5	3415240704GR	0.131	3.58	0.796	20.22	0.981	24.92	631	939
8 x 2 x 1.5	3415240804GR	0.131	3.58	0.817	20.75	1.008	25.60	683	1016
12 x 2 x 1.5	3415241204GR	0.131	3.58	1.004	25.50	1.206	30.63	874	1300
16 x 2 x 1.5	3415241604GR	0.131	3.58	1.129	28.68	1.339	34.01	1111	1653
19 x 2 x 1.5	3415241904GR	0.131	3.58	1.253	31.83	1.481	37.62	1303	1939
24 x 2 x 1.5	3415242404GR	0.131	3.58	1.460	37.08	1.691	42.95	1532	2279
32 x 2 x 1.5	3415243204GR	0.131	3.58	1.600	40.64	1.886	47.90	2015	2998
1 x 2 x 2.5	3415230105GR	0.153	4.14	0.392	9.96	0.557	14.15	210	312
2 x 2 x 2.5	3415240205GR	0.153	4.14	0.631	16.03	0.775	19.69	429	638
4 x 2 x 2.5	3415240405GR	0.153	4.14	0.697	17.70	0.891	22.63	536	798
7 x 2 x 2.5	3415240705GR	0.153	4.14	0.896	22.76	1.108	28.14	788	1172
8 x 2 x 2.5	3415240805GR	0.153	4.14	0.935	23.75	1.135	28.83	883	1314
12 x 2 x 2.5	3415241205GR	0.153	4.14	1.170	29.72	1.393	35.38	1302	1937
16 x 2 x 2.5	3415241605GR	0.153	4.14	1.310	33.27	1.544	39.22	1543	2296
19 x 2 x 2.5	3415241905GR	0.153	4.14	1.433	36.40	1.703	43.26	1714	2550
24 x 2 x 2.5	3415242405GR	0.153	4.14	1.660	42.16	1.919	48.74	2101	3126
32 x 2 x 2.5	3415243205GR	0.153	4.14	1.814	46.08	2.082	52.88	2653	3947
1 x 3 x 0.75	3415270102GR	0.109	2.77	0.327	8.31	0.479	12.17	151	225
2 x 3 x 0.75	3415280202GR	0.109	2.77	0.560	14.22	0.722	18.34	321	478
4 x 3 x 0.75	3415280402GR	0.109	2.77	0.657	16.69	0.828	21.03	405	603
7 x 3 x 0.75	3415280702GR	0.109	2.77	0.794	20.17	0.973	24.71	548	815
8 x 3 x 0.75	3415280802GR	0.109	2.77	0.872	22.15	1.057	26.85	642	955
12 x 3 x 0.75	3415281202GR	0.109	2.77	1.061	26.95	1.255	31.88	906	1348
16 x 3 x 0.75	3415281602GR	0.109	2.77	1.189	30.20	1.391	35.33	1084	1613
19 x 3 x 0.75	3415281902GR	0.109	2.77	1.258	31.95	1.464	37.19	1211	1802
24 x 3 x 0.75	3415282402GR	0.109	2.77	1.533	38.94	1.751	44.48	1326	1973
32 x 3 x 0.75	3415283202GR	0.109	2.77	1.691	42.95	1.933	49.10	1918	2854
1 x 3 x 1.0	3415270103GR	0.114	3.51	0.338	8.59	0.492	12.50	175	260
2 x 3 x 1.0	3415280203GR	0.114	3.51	0.577	14.66	0.745	18.92	359	534
4 x 3 x 1.0	3415280403GR	0.114	3.51	0.678	17.22	0.850	21.59	464	690
7 x 3 x 1.0	3415280703GR	0.114	3.51	0.824	20.93	1.005	25.53	615	915
8 x 3 x 1.0	3415280803GR	0.114	3.51	0.899	22.83	1.086	27.58	755	1123
12 x 3 x 1.0	3415281203GR	0.114	3.51	1.120	28.45	1.330	33.78	944	1405
16 x 3 x 1.0	3415281603GR	0.114	3.51	1.209	30.71	1.428	36.27	1229	1829
19 x 3 x 1.0	3415281903GR	0.114	3.51	1.326	33.68	1.549	39.34	1398	2080
24 x 3 x 1.0	3415282403GR	0.114	3.51	1.612	40.94	1.836	46.63	1587	2361
32 x 3 x 1.0	3415283203GR	0.114	3.51	1.775	45.09	2.026	51.46	2142	3187
1 x 3 x 1.5	3415270104GR	0.131	3.58	0.375	9.53	0.530	13.46	210	312
2 x 3 x 1.5	3415280204GR	0.131	3.58	0.653	16.59	0.828	21.03	453	674
4 x 3 x 1.5	3415280404GR	0.131	3.58	0.771	19.58	0.951	24.16	599	891
7 x 3 x 1.5	3415280704GR	0.131	3.58	0.936	23.77	1.127	28.63	842	1253
8 x 3 x 1.5	3415280804GR	0.131	3.58	1.039	26.39	1.238	31.45	918	1366
12 x 3 x 1.5	3415281204GR	0.131	3.58	1.279	32.49	1.489	37.82	1295	1927
16 x 3 x 1.5	3415281604GR	0.131	3.58	1.451	36.86	1.671	42.44	1551	2308
19 x 3 x 1.5	3415281904GR	0.131	3.58	1.535	38.99	1.761	44.73	1837	2733
24 x 3 x 1.5	3415282404GR	0.131	3.58	1.831	46.51	2.077	52.76	2261	3364
32 x 3 x 1.5	3415283204GR	0.131	3.58	2.032	51.61	2.289	58.14	2913	4334
1 x 3 x 2.5	3415270105GR	0.153	4.14	0.380	9.65	0.548	13.92	221	329
2 x 3 x 2.5	3415280205GR	0.153	4.14	0.745	18.92	0.924	23.47	549	817
4 x 3 x 2.5	3415280405GR	0.153	4.14	0.881	23.88	1.068	27.13	747	1111
7 x 3 x 2.5	3415280705GR	0.153	4.14	1.090	27.69	1.288	32.72	1103	1641
8 x 3 x 2.5	3415280805GR	0.153	4.14	1.190	30.23	1.417	35.99	1333	1983
12 x 3 x 2.5	3415281205GR	0.153	4.14	1.487	37.77	1.723	43.76	1702	2532
16 x 3 x 2.5	3415281605GR	0.153	4.14	1.666	42.32	1.915	48.64	2256	3357
19 x 3 x 2.5	3415281905GR	0.153	4.14	1.764	44.81	2.019	51.28	2436	3625
24 x 3 x 2.5	3415282405GR	0.153	4.14	2.106	53.49	2.378	60.40	2923	4349
32 x 3 x 2.5	3415283205GR	0.153	4.14	2.340	59.44	2.626	66.70	3921	5834

RFOU P1/P8 0.6/1kV Power and Control Cable – NEK 606

Flame Retardant • Halogen-Free • Mud Resistant • Rated 90°C

Insulation

Low smoke
halogen-free
EP meeting
IEC 60092-351

Core Identification:

- 2 Core: White - Black
- 3 Core: White - Black - Red or Green/Yellow
- 4 Core: White - Black - Red - Light Blue or Green/Yellow
- 5 Core and above: Solid color with printed numbers

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359
Type SHF-2/SHF Mud.

Standard sheath color is black. Blue sheath is available for intrinsically safe installations.

Conductor

Flexible Class 5
(for sizes up to 35 sq. mm)
or Class 2 (for sizes 50 sq. mm and larger)
tinned copper per IEC 60228

Constructions also available with yellow-green ground. Add "E" to end of Part No.

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-353

Armor

Basket weave
tinned copper wire
armor per IEC 60092-353

Application

Designed for power, control and lighting systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-353 AND IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count Class 5 (metric) conductors for sizes up to 35 sq. mm. For sizes larger than 50 sq. mm, Class 2 strand is used.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Hawke Gland Types

See Page 1

Stranding Profile

See Page 1

Size mm ²	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3402310109	0.325	8.26	0.409	10.39	0.574	14.58	281	418	96	1.24	0.139
1 x 25	3402310110	0.395	10.03	0.461	11.71	0.634	16.10	376	559	127	0.795	0.133
1 x 35	3402310111	0.425	10.80	0.505	12.83	0.680	17.27	446	664	157	0.565	0.128
1 x 50	3402310112	0.482	12.24	0.569	14.45	0.743	18.87	593	882	196	0.391	0.121
1 x 70	3402310113	0.527	13.39	0.614	15.60	0.793	20.14	707	1052	242	0.270	0.117
1 x 95	3402310114	0.619	15.72	0.707	17.96	0.898	22.81	939	1397	293	0.195	0.114
1 x 120	3402310115	0.672	17.07	0.760	19.30	0.951	24.16	1114	1658	339	0.154	0.110
1 x 150	3402310116	0.765	19.43	0.852	21.64	1.048	26.62	1377	2049	389	0.126	0.109
1 x 185	3402310117	0.834	21.18	0.921	23.39	1.131	28.73	1643	2445	444	0.100	0.109
1 x 240	3402310118	0.946	24.03	1.045	26.54	1.255	31.88	2082	3098	522	0.0762	0.105
1 x 300	3402310119	1.052	26.72	1.139	28.93	1.358	34.49	2562	3812	601	0.0607	0.107
2 x 1.5/5	3402310204	0.141	3.58	0.369	9.37	0.529	13.44	189	281	20	13.70	0.137
2 x 2.5/7	3402310205	0.163	4.14	0.407	10.34	0.569	14.45	223	332	26	8.21	0.127
2 x 4/7	3402310206	0.181	4.60	0.449	11.40	0.617	15.67	281	418	34	5.09	0.119
2 x 6/9	3402310207	0.202	5.13	0.491	12.47	0.662	16.81	325	484	44	3.39	0.110
2 x 10/11	3402310208	0.262	6.65	0.627	15.93	0.802	20.37	477	710	61	1.95	0.097
2 x 16/16	3402310209	0.325	8.26	0.737	18.72	0.933	23.70	661	983	82	1.24	0.096
2 x 25/16	3402310210	0.395	10.03	0.877	22.28	1.068	27.13	907	1350	108	0.795	0.095

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3402310109BL)
For yellow-green ground, add "E" to end of Part Number (example: 3402310109E)

NEK 606**RFOU P1/P8 Power and Control Cable**

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
3 x 1.5/5	3402310304	0.141	3.58	0.392	9.96	0.553	14.05	219	326	16	13.70	0.137
3 x 2.5/7	3402310305	0.163	4.14	0.439	11.15	0.605	15.37	261	388	21	8.21	0.127
3 x 4/7	3402310306	0.181	4.60	0.478	12.14	0.648	16.46	315	469	28	5.09	0.119
3 x 6/9	3402310307	0.202	5.13	0.523	13.28	0.695	17.65	381	567	36	3.39	0.110
3 x 10/11	3402310308	0.262	6.65	0.669	16.99	0.848	21.54	569	847	50	1.95	0.097
3 x 16/16	3402310309	0.325	8.26	0.788	20.02	0.973	24.71	786	1169	67	1.24	0.096
3 x 25/16	3402310310	0.395	10.03	0.939	23.85	1.134	28.80	1123	1671	89	0.795	0.095
3 x 35/16	3402310311	0.435	11.05	1.025	26.04	1.241	31.52	1413	2102	110	0.565	0.094
3 x 50/25	3402310312	0.482	12.24	1.125	28.58	1.355	34.42	1848	2750	137	0.391	0.089
3 x 70/35	3402310313	0.527	13.39	1.239	31.47	1.479	37.57	2594	3860	169	0.270	0.088
3 x 95/50	3402310314	0.619	15.72	1.438	36.53	1.713	43.51	3166	4711	205	0.195	0.088
3 x 120	3402310315	0.672	17.07	1.553	39.45	1.815	46.10	3631	5403	237	0.154	0.086
3 x 120+70E	3402310315E	0.672	17.07	1.744	44.30	2.022	51.36	4633	6893	237	0.154	0.086
3 x 150	3402310316	0.765	19.43	1.770	44.96	2.046	51.97	4582	6818	272	0.126	0.088
3 x 150+85E	3402310316E	0.765	19.43	1.968	49.99	2.258	57.35	5775	8593	272	0.126	0.088
3 x 185	3402310317	0.834	21.18	1.935	49.15	2.240	56.90	5542	8246	311	0.100	0.091
3 x 185+95E	3402310317E	0.834	21.18	2.151	54.64	2.458	62.43	6940	10326	311	0.100	0.091
3 x 240	3402310318	0.946	24.03	2.176	55.27	2.485	63.12	6993	10405	365	0.0762	0.085
3 x 240+120E	3402310318E	0.946	24.03	2.421	61.49	2.765	70.23	8909	13256	365	0.0762	0.085
4 x 1.5/7	3402310404	0.141	3.58	0.428	10.87	0.594	15.09	243	362	16	13.70	0.145
4 x 2.5/7	3402310405	0.163	4.14	0.481	12.22	0.649	16.48	301	448	21	8.21	0.135
4 x 4/9	3402310406	0.181	4.60	0.525	13.34	0.696	17.68	367	546	28	5.09	0.122
4 x 6/9	3402310407	0.202	5.13	0.575	14.61	0.752	19.10	450	670	36	3.39	0.118
4 x 10/11	3402310408	0.262	6.65	0.739	18.77	0.922	23.42	685	1019	50	1.95	0.106
4 x 16/16	3402310409	0.325	8.26	0.873	22.17	1.063	27.00	978	1455	67	1.24	0.105
4 x 25/16	3402310410	0.395	10.03	1.041	26.44	1.242	31.55	1382	2056	89	0.795	0.104
4 x 35/16	3402310411	0.435	11.05	1.137	28.88	1.349	34.26	1697	2525	110	0.565	0.101
4 x 50/25	3402310412	0.482	12.24	1.267	32.18	1.507	38.28	2337	3477	137	0.391	0.102
4 x 70/35	3402310413	0.527	13.39	1.375	34.93	1.645	41.78	2873	4275	169	0.270	0.100
4 x 95/50	3402310414	0.619	15.72	1.599	40.61	1.882	47.8	3928	5844	205	0.195	0.099
4 x 120/60	3402310415	0.672	17.07	1.744	44.30	2.052	52.12	4772	7100	237	0.154	0.097
5 x 1.5/7	3402310504	0.141	3.58	0.413	10.49	0.579	14.71	272	405	-	13.70	-
7 x 1.5/9	3402310704	0.141	3.58	0.510	12.95	0.683	17.35	329	490	-	13.70	-
12 x 1.5/11	3402311204	0.141	3.58	0.673	17.09	0.858	21.79	508	756	-	13.70	-
19 x 1.5/11	3402311904	0.141	3.58	0.792	20.12	0.988	25.10	756	1125	-	13.70	-
24 x 1.5/11	3402312404	0.141	3.58	0.933	23.70	1.154	29.31	858	1277	-	13.70	-
27 x 1.5/16	3402312704	0.141	3.58	0.955	24.26	1.163	29.54	950	1413	-	13.70	-
37 x 1.5/16	3402313704	0.141	3.58	1.091	27.71	1.316	33.43	1165	1733	-	13.70	-
5 x 2.5/9	3402310505	0.160	4.06	0.520	13.21	0.692	17.58	345	513	-	8.21	-
7 x 2.5/9	3402310705	0.160	4.06	0.576	14.63	0.753	19.13	416	619	-	8.21	-
12 x 2.5/11	3402311205	0.160	4.06	0.765	19.43	0.956	24.28	638	949	-	8.21	-
19 x 2.5/11	3402311905	0.160	4.06	0.902	22.91	1.104	28.04	884	1315	-	8.21	-
24 x 2.5/16	3402312405	0.160	4.06	1.047	26.59	1.262	32.05	1091	1623	-	8.21	-
27 x 2.5/16	3402312705	0.160	4.06	1.072	27.23	1.289	32.74	1171	1742	-	8.21	-
37 x 2.5/16	3402313705	0.160	4.06	1.227	31.17	1.456	36.98	1517	2257	-	8.21	-

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3402310109BL)

For yellow-green ground, add "E" to end of Part Number (example: 3402310109E)



BFOU P5/P12 0.6/1kV Power and Control Cable – NEK 606

Fire Resistant • Halogen-Free • Mud Resistant • Rated 90°C

Insulation

Fire resistant tape
low smoke halogen-free
EP meeting
IEC 60092-351

Core Identification:

2 Core: White - Black
3 Core: White - Black -
Red or
Green/Yellow
4 Core: White - Black -
Red - Light Blue
or Green/Yellow
5 Core and above:
Solid color with
printed numbers

Outer Sheath

Low smoke halogen-
free flame retardant
compound meeting
IEC 60092-359
Type SHF-2/SHF Mud.

*Standard sheath color
is black. Blue sheath is
available for intrinsically
safe installations.*

Conductor

Flexible Class 5
(for sizes up to 35 sq.
mm) or Class 2 (for sizes
50 sq. mm and larger)
tinned copper per
IEC 60228

Constructions also available
with yellow-green ground.
Add "E" to end of Part No.

Bedding

Low smoke halogen-free
polyolefin bedding
meeting IEC 60092-353

Armor

Basket weave
tinned copper wire
armor per
IEC 60092-353

Application

Designed for power, control and lighting
systems in EX or safe areas.

Features

- Meets IEC 60092-350, IEC 60092-351,
IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count
Class 5 (metric) conductors for sizes
up to 35 sq. mm. For sizes larger than
50 sq. mm, Class 2 strand is used.
- Mud resistance: Meets NEK606 for
Type SHF Mud (meets Annex G of
IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

Hawke Gland Types

See Page 1

Stranding Profile

See Page 1

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3412310109	0.345	8.76	0.432	10.97	0.600	15.24	295	439	96	1.240	0.142
1 x 25	3412310110	0.420	10.67	0.503	12.78	0.678	17.22	412	613	127	0.795	0.136
1 x 35	3412310111	0.450	11.43	0.547	13.89	0.726	18.44	488	726	157	0.565	0.131
1 x 50	3412310112	0.507	12.88	0.594	15.09	0.777	19.74	617	918	196	0.391	0.124
1 x 70	3412310113	0.552	14.02	0.639	16.23	0.824	20.93	727	1082	242	0.270	0.120
1 x 95	3412310114	0.637	16.18	0.732	18.59	0.925	23.50	959	1427	293	0.195	0.117
1 x 120	3412310115	0.698	17.73	0.785	19.94	0.976	24.79	1136	1690	339	0.154	0.112
1 x 150	3412310116	0.790	20.07	0.878	22.30	1.083	27.51	1409	2096	389	0.126	0.111
1 x 185	3412310117	0.857	21.77	0.944	23.98	1.157	29.39	1661	2471	444	0.100	0.111
1 x 240	3412310118	0.971	24.66	1.058	26.87	1.279	32.49	2096	3119	522	0.0762	0.107
1 x 300	3412310119	1.077	27.36	1.181	30.00	1.427	36.25	2653	3947	601	0.0607	0.108
2 x 1.5/5	3412310204	0.152	3.86	0.389	9.88	0.549	13.94	196	292	20	13.70	0.147
2 x 2.5/7	3412310205	0.174	4.42	0.427	10.85	0.589	14.96	239	356	26	8.21	0.136
2 x 4/7	3412310206	0.197	5.00	0.479	12.17	0.654	16.61	294	437	34	5.09	0.129
2 x 6/9	3412310207	0.218	5.54	0.521	13.23	0.698	17.73	362	539	44	3.39	0.119
2 x 10/11	3412310208	0.277	7.04	0.657	16.69	0.846	21.49	509	757	61	1.95	0.104
2 x 16/16	3412310209	0.345	8.76	0.769	19.53	0.967	24.56	685	1019	82	1.24	0.100
2 x 25/16	3412310210	0.420	10.67	0.928	23.57	1.119	28.42	956	1422	108	0.795	0.100

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3412310109BL)
For yellow-green ground, add "E" to end of Part Number (example: 3412310109E)

NEK 606

BFOU P5/P12 Power and Control Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	NEK 606 Part No.*	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
3 x 1.5/5	3412310304	0.152	3.86	0.412	10.46	0.574	14.58	221	329	16	13.70	0.147
3 x 2.5/7	3412310305	0.174	4.42	0.453	11.51	0.619	15.72	267	397	21	8.21	0.136
3 x 4/7	3412310306	0.197	5.00	0.509	12.93	0.679	17.25	338	503	28	5.09	0.129
3 x 6/9	3412310307	0.218	5.54	0.555	17.81	0.727	18.47	398	592	36	3.39	0.119
3 x 10/11	3412310308	0.277	7.04	0.701	20.88	0.901	22.89	603	897	50	1.95	0.104
3 x 16/16	3412310309	0.345	8.76	0.822	25.10	1.007	25.58	812	1208	67	1.24	0.100
3 x 25/16	3412310310	0.420	10.67	0.988	26.85	1.202	30.53	1206	1794	89	0.795	0.100
3 x 35/16	3412310311	0.460	11.68	1.057	27.84	1.274	32.36	1413	2102	110	0.565	0.098
3 x 50/25	3412310312	0.507	12.88	1.197	30.40	1.443	36.65	1982	2949	137	0.391	0.093
3 x 70/35	3412310313	0.552	14.02	1.293	32.84	1.550	39.37	2664	3964	169	0.270	0.092
3 x 95/50	3412310314	0.637	16.18	1.476	37.49	1.750	44.45	3208	4773	205	0.195	0.091
3 x 120	3412310315	0.698	17.73	1.608	40.84	1.869	47.47	3719	5533	237	0.154	0.088
3 x 120+70E	3412310315E	0.698	17.73	1.805	45.85	2.100	53.34	4809	7155	237	0.154	0.088
3 x 150	3412310316	0.790	20.07	1.824	46.33	2.100	53.34	4669	6947	272	0.126	0.090
3 x 150+85E	3412310316E	0.790	20.07	2.046	51.97	2.359	59.92	6046	8996	272	0.126	0.090
3 x 185	3412310317	0.857	21.77	1.985	50.42	2.294	58.27	5688	8463	311	0.100	0.089
3 x 185+95E	3412310317E	0.857	21.77	2.207	56.06	2.534	64.36	7163	10658	311	0.100	0.089
3 x 240	3412310318	0.971	24.66	2.230	56.64	2.560	65.02	7233	10747	365	0.0762	0.087
3 x 240+120E	3412310318E	0.971	24.66	2.482	63.04	2.832	71.93	9092	13528	365	0.0762	0.087
4 x 1.5/7	3412310404	0.152	3.86	0.452	11.48	0.624	15.85	162	241	16	13.70	0.156
4 x 2.5/7	3412310405	0.174	4.42	0.493	12.52	0.661	16.79	319	475	21	8.21	0.145
4 x 4/9	3412310406	0.197	5.00	0.561	14.25	0.741	18.82	394	586	28	5.09	0.138
4 x 6/9	3412310407	0.218	5.54	0.611	15.52	0.975	20.22	483	719	36	3.39	0.127
4 x 10/11	3412310408	0.277	7.04	0.775	19.69	1.119	24.77	743	1106	50	1.95	0.113
4 x 16/16	3412310409	0.345	8.76	0.911	23.14	1.303	28.42	1104	1643	67	1.24	0.109
4 x 25/16	3412310410	0.420	10.67	1.101	27.97	1.424	33.10	1439	2141	89	0.795	0.108
4 x 35/16	3412310411	0.460	11.68	1.191	30.25	1.450	36.17	1752	2607	110	0.565	0.105
4 x 50/25	3412310412	0.541	13.74	1.328	33.73	1.587	40.31	2453	3650	137	0.391	0.110
4 x 70/35	3412310413	0.614	15.60	1.436	36.47	1.700	43.18	2923	4349	169	0.270	0.111
4 x 95/50	3412310414	0.704	17.88	1.658	42.11	1.940	49.28	3933	5852	205	0.195	0.109
4 x 120/60	3412310415	0.797	20.24	1.805	45.85	2.117	53.77	4906	7300	237	0.154	0.110
5 x 1.5/7	3412310504	0.152	3.86	0.497	12.62	0.674	17.12	301	448	-	13.70	-
7 x 1.5/9	3412310704	0.152	3.86	0.540	13.72	0.721	18.31	349	519	-	13.70	-
12 x 1.5/11	3412311204	0.152	3.86	0.717	18.21	0.913	23.19	542	806	-	13.70	-
19 x 1.5/11	3412311904	0.152	3.86	0.846	21.49	1.041	26.44	737	1097	-	13.70	-
24 x 1.5/16	3412312404	0.152	3.86	0.996	25.30	1.201	30.51	1046	1556	-	13.70	-
27 x 1.5/16	3412312704	0.152	3.86	1.038	26.37	1.263	32.08	1114	1658	-	13.70	-
37 x 1.5/16	3412313704	0.152	3.86	1.170	29.72	1.401	35.59	1298	1931	-	13.70	-
5 x 2.5/9	3412310505	0.174	4.42	0.547	13.89	0.727	18.47	366	545	-	8.21	-
7 x 2.5/9	3412310705	0.174	4.42	0.597	15.16	0.774	19.66	423	629	-	8.21	-
12 x 2.5/11	3412311205	0.174	4.42	0.794	20.17	0.996	25.30	665	989	-	8.21	-
19 x 2.5/16	3412311905	0.174	4.42	0.937	23.80	1.139	28.93	903	1344	-	8.21	-
24 x 2.5/16	3412312405	0.174	4.42	1.126	28.60	1.341	34.06	1156	1720	-	8.21	-
27 x 2.5/16	3412312705	0.174	4.42	1.151	29.24	1.384	35.15	1227	1826	-	8.21	-
37 x 2.5/16	3412313705	0.174	4.42	1.294	32.87	1.542	39.17	1612	2398	-	8.21	-

* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3412310109BL)

For yellow-green ground, add "E" to end of Part Number (example: 3412310109E)



RFOU – Medium Voltage (MV) Power Cable – NEK 606

Flame Retardant • Halogen-Free • Mud Resistant • Rated 90°C

Conductors

Flexible Class 5 (for sizes up to 35 sq. mm) or Class 2 (for sizes 50 sq. mm and larger) tinned copper per IEC 60228

Insulation

Fire resistant tape low smoke halogen-free EP meeting IEC 60092-354

Metallic Screen

Composite shield consisting of 0.0126" tinned copper wires braided with nylon providing shielded coverage meeting IEC 60092-354. The nylon is colored for easy phase identification (three conductor = black, blue, red) without the need to remove the shield to find an underlying colored tape.

Conductor Screen

A combination of semi-conducting tape and extruded thermosetting semi-conducting material meeting IEC60092-354

Insulation Screen

Semi-conducting tape, with overlap, for fast and easy termination meeting IEC60092-354

Earthing Conductor (optional)

Per IEC 60092-352

Bedding

Low smoke halogen-free polyolefin bedding meeting IEC 60092-354

Armor

Basket weave tinned copper wire armor per IEC 60092-354

Outer Sheath

Low smoke halogen-free flame retardant compound meeting IEC 60092-359 Type SHF-2/SHF Mud.

*Standard sheath color is red.
Other colors are available.*

Applications

AmerCable's NEK-MV medium voltage cables are for use aboard commercial ships, mobile offshore drilling units (MODUs), and fixed or floating offshore facilities.

Features

- Meets IEC 60092-350, IEC 60092-351, IEC 60092-354 and IEC 60092-359
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count Class 5 (metric) conductors for sizes up to 35 sq. mm. For sizes larger than 50 sq. mm, Class 2 strand is used.
- Mud resistance: Meets NEK606 for Type SHF Mud (meets Annex G of IEC 60092-350)

Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)
- Voltage Rating – 3.6k/6V to 12/20kV

**Hawke
Gland Types**
See Page 1

**Stranding
Profile**
See Page 1



NEK 606**RFOU P2/P9 3.6/6kV MV Power Cable**

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm2	NEK 606 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 10	3401510108RD	0.484	12.29	0.669	16.99	0.858	21.79	502	747	72	1.95	0.185
1 x 16	3401510109RD	0.525	13.34	0.710	18.03	0.901	22.89	573	853	96	1.24	0.173
1 x 25	3401510110RD	0.578	14.68	0.763	19.38	0.958	24.33	682	1015	127	0.795	0.162
1 x 35	3401510111RD	0.622	15.80	0.807	20.50	1.007	25.58	778	1158	157	0.565	0.155
1 x 50	3401510112RD	0.652	16.56	0.837	21.26	1.039	26.39	907	1350	196	0.391	0.153
1 x 70	3401510113RD	0.697	17.70	0.882	22.40	1.088	27.64	1019	1516	242	0.270	0.148
1 x 95	3401510114RD	0.773	19.63	0.958	24.33	1.170	29.72	1257	1870	293	0.195	0.140
1 x 120	3401510115RD	0.825	20.96	1.010	25.65	1.226	31.14	1450	2157	339	0.154	0.135
1 x 150	3401510116RD	0.901	22.89	1.103	28.02	1.328	33.73	1940	2887	389	0.126	0.131
1 x 185	3401510117RD	0.953	24.21	1.155	29.34	1.384	35.15	1984	2952	444	0.100	0.128
1 x 240	3401510118RD	1.048	26.62	1.264	32.11	1.515	38.48	2509	3733	522	0.0762	0.124
1 x 300	3401510119RD	1.143	29.03	1.359	34.52	1.623	41.22	3010	4479	601	0.0607	0.121
3 x 10/16	3401510308RD	0.484	12.29	1.380	35.05	1.641	41.68	1627	2421	50	1.95	0.156
3 x 16/16	3401510309RD	0.525	13.34	1.467	37.26	1.733	44.02	1887	2808	67	1.24	0.145
3 x 25/16	3401510310RD	0.578	14.68	1.598	40.59	1.874	47.60	2325	3459	89	0.795	0.136
3 x 35/15	3401510311RD	0.622	15.80	1.693	43.00	1.977	50.22	2643	3932	110	0.565	0.130
3 x 50/25	3401510312RD	0.652	16.56	1.758	44.65	2.048	52.02	3097	4608	137	0.391	0.128
3 x 70/35	3401510313RD	0.697	17.70	1.855	47.12	2.151	54.64	3527	5248	169	0.270	0.124
3 x 95/50	3401510314RD	0.773	19.63	2.035	51.69	2.348	59.64	4867	7242	205	0.195	0.118
3 x 120/60	3401510315RD	0.825	20.96	2.147	54.53	2.488	63.20	5751	8557	237	0.154	0.113
3 x 150/75	3401510316RD	0.901	22.89	2.311	58.70	2.666	67.72	6765	10066	272	0.126	0.109
3 x 185	3401510317RD	0.953	24.21	2.423	61.54	2.767	70.28	6884	10243	311	0.100	0.107
3 x 185+E	3401510317RDE	0.953	24.21	2.423	61.54	2.767	70.28	7526	11198	311	0.100	0.107
3 x 240	3401510318RD	1.048	26.62	2.675	67.95	3.040	77.22	8564	12742	365	0.0762	0.104
3 x 240+E	3401510318RDE	1.048	26.62	2.675	67.95	3.040	77.22	9379	13955	365	0.0762	0.104

NEK 606**RFOU P3/P10 6/10kV MV Power Cable**

Size mm2	NEK 606 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 16	3401610109RD	0.558	14.17	0.743	18.87	0.938	23.83	579	861	96	1.240	0.176
1 x 25	3401610110RD	0.611	15.52	0.796	20.22	0.996	25.30	726	1080	127	0.795	0.165
1 x 35	3401610111RD	0.655	16.64	0.840	21.34	1.044	26.52	818	1217	157	0.565	0.158
1 x 50	3401610112RD	0.686	17.40	0.870	22.10	1.074	27.28	946	1408	196	0.391	0.155
1 x 70	3401610113RD	0.730	18.54	0.915	23.24	1.125	28.58	1062	1580	242	0.270	0.150
1 x 95	3401610114RD	0.806	20.47	0.991	25.17	1.207	30.66	1301	1936	293	0.195	0.142
1 x 120	3401610115RD	0.858	21.79	1.060	26.92	1.280	32.51	1520	2262	339	0.154	0.138
1 x 150	3401610116RD	0.934	23.72	1.136	28.85	1.363	34.62	1992	2964	389	0.126	0.133
1 x 185	3401610117RD	0.986	25.04	1.188	30.18	1.432	36.37	2095	3117	444	0.100	0.130
1 x 240	3401610118RD	1.081	27.46	1.297	32.94	1.550	39.37	2555	3802	522	0.0762	0.126
1 x 300	3401610119RD	0.901	22.89	1.393	35.38	1.656	42.06	3059	4551	601	0.0607	0.122
3 x 16/16	3401610309RD	0.558	14.47	1.555	39.50	1.827	46.41	2066	3074	67	1.240	0.149
3 x 25/16	3401610310RD	0.611	15.52	1.669	42.39	1.952	49.58	2472	3678	89	0.795	0.139
3 x 35/16	3401610311RD	0.655	16.64	1.764	44.81	2.055	52.20	2818	4193	110	0.565	0.133
3 x 50/25	3401610312RD	0.685	17.40	1.829	46.46	2.125	53.98	3259	4849	137	0.391	0.132
3 x 70/35	3401610313RD	0.730	18.54	1.943	49.35	2.248	57.10	3751	5581	169	0.270	0.127
3 x 95/50	3401610314RD	0.806	20.47	2.106	53.49	2.440	61.98	4690	6978	205	0.195	0.121
3 x 120/60	3401610315RD	0.858	21.79	2.220	56.39	2.567	65.20	5975	8890	237	0.154	0.116
3 x 150/75	3401610316RD	0.934	23.72	2.382	60.50	2.741	69.62	6951	10342	272	0.126	0.112
3 x 185	3401610317RD	0.986	25.04	2.494	63.35	2.845	72.26	7102	10567	311	0.100	0.109
3 x 185+E	3401610317RDE	0.986	25.04	2.494	63.35	2.845	72.26	7758	11543	311	0.100	0.109
3 x 240	3401610318RD	1.081	27.46	2.746	69.75	3.117	79.17	8808	13105	365	0.0762	0.106
3 x 240+E	3401610318RDE	1.081	27.46	2.746	69.75	3.117	79.17	9622	14316	365	0.0762	0.106

NEK 606

RFOU P4/P11 8.7/15kV MV Power Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

Size mm ²	NEK 606 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 25	3401710110RD	0.669	17.75	0.886	22.50	1.092	27.74	815	1213	127	0.795	0.172
1 x 35	3401710111RD	0.743	18.87	0.930	23.62	1.140	28.96	908	1351	157	0.565	0.164
1 x 50	3401710112RD	0.773	19.63	0.960	24.38	1.174	29.82	1049	1561	196	0.391	0.162
1 x 70	3401710113RD	0.818	20.78	1.005	25.53	1.221	31.01	1182	1759	242	0.270	0.156
1 x 95	3401710114RD	0.894	22.71	1.098	27.89	1.323	33.60	1445	2150	293	0.195	0.149
1 x 120	3401710115RD	0.946	24.03	1.150	29.21	1.392	35.36	1707	2540	339	0.154	0.144
1 x 150	3401710116RD	1.022	25.96	1.240	31.50	1.491	37.87	2012	2994	389	0.126	0.139
1 x 185	3401710117RD	1.074	27.28	1.292	32.82	1.547	39.29	2264	3369	444	0.100	0.136
1 x 240	3401710118RD	1.169	29.69	1.387	35.23	1.653	41.99	2620	3898	522	0.0762	0.131
1 x 300	3401710119RD	1.264	32.11	1.499	38.07	1.767	44.88	3264	4856	601	0.0607	0.127
3 x 25/16	3401710310RD	0.699	17.75	1.863	47.32	1.932	49.07	2449	3644	89	0.795	0.148
3 x 35/16	3401710311RD	0.743	18.87	1.975	50.17	2.282	57.96	3328	4952	110	0.565	0.141
3 x 50/25	3401710312RD	0.773	19.63	2.040	51.82	2.353	59.77	3781	5626	137	0.391	0.140
3 x 70/35	3401710313RD	0.818	20.78	2.137	54.28	2.458	62.43	4269	6352	169	0.270	0.135
3 x 95/50	3401710314RD	0.894	22.71	2.300	58.42	2.653	67.39	4564	6791	205	0.195	0.128
3 x 120/60	3401710315RD	0.946	24.03	2.412	61.26	2.775	70.49	6134	9127	237	0.154	0.123
3 x 150/75	3401710316RD	1.022	25.96	2.623	66.62	3.003	76.28	6918	10293	272	0.126	0.119
3 x 185	3401710317RD	1.074	27.28	2.735	69.47	3.108	78.94	7935	11806	311	0.100	0.116
3 x 185+E	3401710317RDE	1.074	27.28	2.735	69.47	3.108	78.94	8591	12782	311	0.100	0.116
3 x 240	3401710318RD	1.169	29.69	2.940	74.68	3.328	84.53	9469	14089	365	0.0762	0.112
3 x 240+E	3401710318RDE	1.169	29.69	2.940	74.68	3.328	84.53	10283	15300	365	0.0762	0.112

NEK 606

RFOU P19/P21 12/20kV MV Power Cable

Size mm ²	NEK 606 Part No.	Diameter Over Ins. (in)	Diameter Over Ins. (mm)	Diameter Over Bedding (in)	Diameter Over Bedding (mm)	Overall Cable Dia. (in)	Overall Cable Dia. (mm)	Cable Weight (lbs/kft)	Cable Weight (kg/km)	Ampacity @ 90°C Cond. 45°C Ambient	Max DC Res. @ 20°C (ohms/km)	Inductive Reactance @ 60Hz (ohms/km)
1 x 35	3401810111RD	0.743	18.87	0.930	23.62	1.140	28.96	908	1351	157	0.565	0.164
1 x 50	3401810112RD	0.856	21.74	1.042	26.47	1.263	32.08	1153	1716	196	0.391	0.168
1 x 70	3401810113RD	0.901	22.89	1.104	28.04	1.329	33.76	1315	1957	242	0.270	0.163
1 x 95	3401810114RD	0.977	24.82	1.180	29.97	1.424	36.17	1625	2418	293	0.195	0.155
1 x 120	3401810115RD	1.029	26.14	1.246	31.65	1.498	38.05	1854	2759	339	0.154	0.150
1 x 150	3401810116RD	1.105	28.07	1.322	33.58	1.579	40.11	2145	3192	389	0.126	0.144
1 x 185	3401810117RD	1.157	29.39	1.374	34.90	1.635	41.53	2404	3577	444	0.100	0.140
1 x 240	3401810118RD	1.253	31.83	1.470	37.34	1.736	44.09	2871	4272	522	0.0762	0.135
1 x 300	3401810119RD	1.348	34.24	1.582	40.18	1.856	47.14	3415	5081	601	0.0607	0.131
3 x 35/16	3401810311RD	0.743	18.87	1.975	50.17	2.282	57.96	3317	4935	110	0.565	0.148
3 x 50/25	3401810312RD	0.856	21.74	2.219	56.36	2.547	64.69	4254	6329	137	0.391	0.147
3 x 70/35	3401810313RD	0.901	22.89	2.314	58.78	2.650	67.31	4760	7082	169	0.270	0.141
3 x 95/50	3401810314RD	0.977	24.82	2.478	62.94	2.828	71.83	5662	8424	205	0.195	0.134
3 x 120/60	3401810315RD	1.029	26.14	2.637	66.98	3.019	77.68	6685	9947	237	0.154	0.129
3 x 150/75	3401810316RD	1.105	28.07	2.801	71.15	3.195	81.15	7846	11674	272	0.126	0.124
3 x 185	3401810317RD	1.157	29.39	2.916	74.07	3.304	83.92	8520	12677	311	0.100	0.121
3 x 185+G	3401810317RDE	1.157	29.39	2.916	74.07	3.304	83.92	9177	13654	311	0.100	0.121
3 x 240	3401810318RD	1.253	31.83	3.120	79.25	3.524	89.51	10191	15163	365	0.0762	0.117
3 x 240+G	3401810318RDE	1.253	31.83	3.120	79.25	3.524	89.51	11007	16377	365	0.0762	0.117

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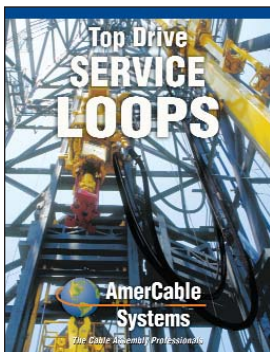
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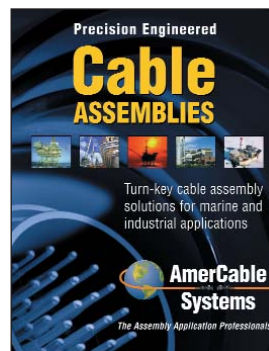
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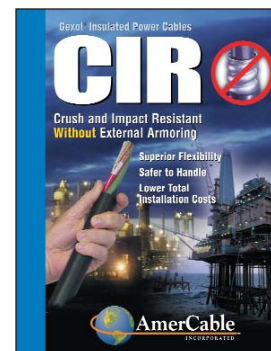
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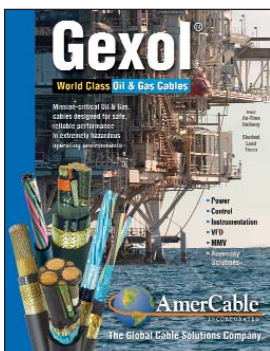
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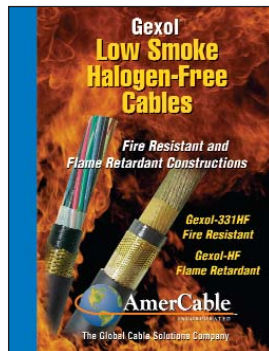
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