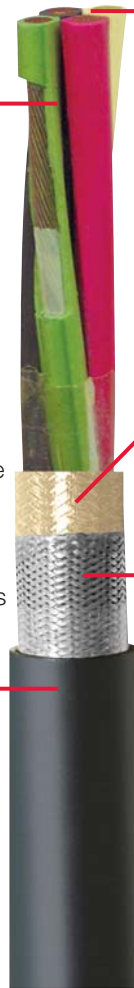


BFOU P5/P12 0.6/1kV Power and Control Cable – NEK 606

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 6009-353

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	-

For yellow-green ground, add “-e” to end of Part #.

