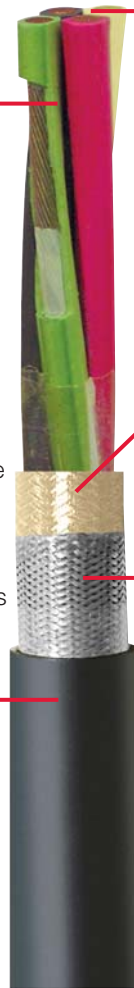


RFOU P1 0.6/1kV Power and Control Cable – SHF2

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/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	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: 3409310109-e)

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	-

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

