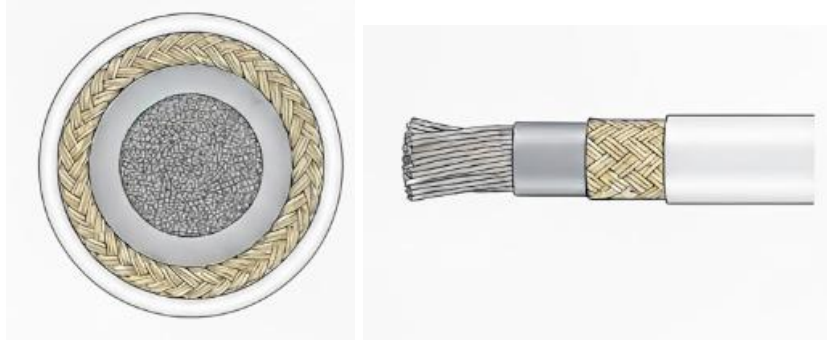


UNISIL

(HIGH TEMPERATURE FIBERGLASS AND SYNTHETIC YARN BRAIDED SILICONE CABLES)



APPLICATION

Designed to be used in high-heat environments for applications like UPS systems, data centers, aircraft, and DG sets. Its applications stem from its unique construction, which includes tinned copper conductor, high-temperature PVC insulation, and dual braids of fiberglass and nylon fiber for superior heat resistance, mechanical strength, and chemical resistance.

PRODUCT CONSTRUCTION

Cable Construction:

- Conductor — Tinned copper Class 5
- Insulation — Modified Silicone Rubber Insulation
- Braiding — Fiberglass and Synthetic yarn
- Thermal Class C coating
- Colour — White (Customized colors can be provided)

FEATURES

- High Ampacity
- Halogen Free
- Good Flexibility
- Outstanding Temperature Resistance
- Weather Resistant
- Abrasion resistance
- Continuous operating temperatures: -60 °C to +180 °C.

TABLE STANDARDS

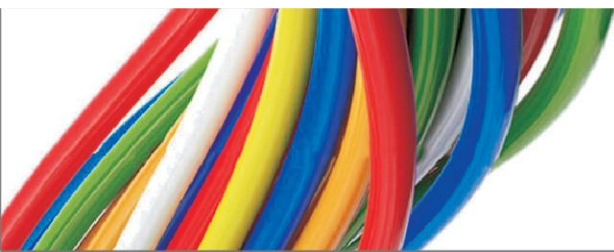
Generally Conforming to IEC 60288, BS EN 50363, BSG-177

CHARACTERISTICS

VOLTAGE RATING (UO/U)
0.6/1.1 KV

TEMPERATURE RATINGS
Fixed: -60°C to +180°C

MINIMUM BENDING RADIUS
Fixed: 5 x overall diameter





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AWG Size	Nominal Conductor Area	Nominal Conductor Diameter (mm)	Nominal Insulation thickness (mm)	Fiberglass Braiding Thickness (mm)	Synthetic Yarn Braiding Thickness (mm)	Nominal Overall Diameter (mm)
UniSiL 22	0.347	0.8	0.5	0.15	0.15	2.4
UniSil 20	0.556	1	0.5	0.15	0.15	2.6
UniSil 18	0.966	1.3	0.6	0.15	0.15	3.1
UniSil 16	1.17	1.45	0.65	0.15	0.15	3.35
UniSil 14	2.05	1.95	0.8	0.15	0.15	4.15
UniSil 12	3.22	2.4	1	0.15	0.15	5
UniSil 10	5.33	3.15	1	0.15	0.15	5.75
UniSil 8	8.76	4.1	1.1	0.15	0.15	6.9
UniSil 6	13.3	5.2	1.2	0.15	0.15	8.2
UniSil 4	21.5	6.5	1.3	0.15	0.15	9.7
UniSil 2	33.3	8.1	1.4	0.15	0.15	11.5
UniSil 1	40.7	9.2	1.4	0.15	0.15	12.6
UniSil 0	53	10.3	1.4	0.15	0.15	13.7
UniSil 00	68.3	11.8	1.6	0.15	0.15	15.6
UniSil 000	84.2	13.2	1.8	0.15	0.15	17.4
UniSil 0000	109	15	2	0.15	0.15	19.6
UniSiL 120	120	15.7	2	0.15	0.15	20.3
UniSiL 150	150	17.4	2	0.15	0.15	22
UniSil 240	240	21	2.5	0.15	0.15	26.6

CURRENT RATING

Calculation of Current Rating (A) of 1.1kV at Permissible Heat Rise as per IEC 60287-1-1

AWG Sizes	Cross Section (mm ²)	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°C	100°C	110°C	120°C	130°C	140°C	150°C	160°C	170°C
UniSil 22	0.347	2	3	4	5	6	6	7	7	8	8	9	9	10	10	10	11	11	12
UniSil 20	0.556	3	5	6	8	9	10	11	11	12	13	14	15	16	16	17	17	18	19
UniSil 18	0.966	6	9	11	14	15	17	19	20	21	23	24	26	27	28	29	30	32	33
UniSil 16	1.17	7	11	13	16	19	20	23	24	26	28	30	31	33	34	35	37	38	40
UniSil 14	2.05	10	15	19	23	26	28	32	34	36	39	42	44	46	48	49	51	54	56
UniSil 12	3.22	14	22	27	33	38	43	46	50	54	57	60	64	67	70	73	76	78	81
UniSil 10	5.33	20	31	39	46	53	60	64	70	75	80	84	89	94	98	102	106	110	114
UniSil 8	8.76	28	43	55	65	74	83	91	99	106	113	119	126	132	138	144	149	155	160
UniSil 6	13.3	36	55	71	83	95	106	117	127	135	145	153	161	169	177	184	191	198	205
UniSil 4	21.5	49	75	96	113	130	145	158	172	184	196	208	219	229	240	250	260	269	279
UniSil 2	33.3	62	94	121	143	164	183	200	217	232	247	262	276	289	303	315	327	340	351
UniSil 1	40.7	72	108	139	165	188	210	230	249	267	285	301	317	333	348	362	376	390	403
UniSil 0	53	88	133	170	201	230	257	281	304	326	348	368	387	406	424	442	459	476	492
UniSil 00	68.3	100	153	195	232	265	296	325	351	377	401	424	447	469	490	510	530	549	569
UniSil 000	84.2	117	178	227	269	308	344	377	408	437	465	493	519	544	568	592	615	637	660
UniSil 0000	109	137	208	266	316	361	402	441	477	512	544	576	607	636	664	692	718	745	770
UniSil 120	120	146	221	282	335	382	426	467	505	542	576	610	642	673	703	732	760	788	814
UniSil 150	150	168	225	324	385	439	489	536	579	621	661	699	735	770	805	838	870	901	932
UniSil 185	185	193	292	372	441	504	561	614	665	712	758	802	844	884	924	962	999	1035	1070
UniSil 240	240	231	350	445	527	602	670	733	793	850	904	956	1005	1053	1100	1145	1189	1231	1273