



K. LACEY WIRES AND CABLES

UNINYVIN

MANUFACTURED TO BSG 177

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CONSTRUCTION

Tinned Copper Conductors, PVC Insulated and covered with a Glass Braid. finished with an outer protective covering of Nylon.

SPECIFICATION - BSG 177

SCOPE

Suitable for use in circuits in which the voltage between conductors, between a metal braid surrounding it and between a conductor and the aircraft structure nowhere exceeds 600V (r.m.s.) and where the frequency does not exceed 1600 c/s. Good moisture and abrasion resistance. Good resistance to fuels, oils and alkalis. -75°C to +105°C. Flexible down to -30°C.

Size	Area	Strand	Conductor		Max. Resistance @20°C Ω / 1000yds	O/Dia.	Cable	Max. Cable Weight
AWG	mm ²	inches	Dia. Min. inches	Dia. Max. inches		Min. inches	O/Dia. Max. inches	
22	0.347	19/0.0060	0.029	0.033	49.66	0.070	0.080	6.47
20	0.556	19/0.0076	0.037	0.041	30.95	0.080	0.090	9.27
18	0.966	33/0.0076	0.048	0.052	17.82	0.090	0.100	13.73
16	1.170	40/0.0076	0.055	0.061	14.70	0.100	0.110	16.73
14	2.050	70/0.0076	0.071	0.077	8.41	0.118	0.132	26.20
12	3.220	110/0.0076	0.090	0.096	5.35	0.136	0.150	38.67
10	5.330	73/0.012	0.114	0.124	3.23	0.182	0.196	64.00
8	8.76	120/0.012	0.155	0.167	1.97	0.233	0.247	98.67
6	13.30	182/0.012	0.200	0.218	1.30	0.286	0.300	158.33
4	21.50	294/0.012	0.254	0.272	0.802	0.345	0.365	250.33
2	33.30	203/0.018	0.320	0.345	0.517	0.415	0.435	353.33
1	40.70	248/0.018	0.359	0.384	0.423	0.460	0.480	436.66
0	53.00	323/0.018	0.407	0.432	0.325	0.510	0.540	556.67
00	68.30	416/0.018	0.460	0.490	0.252	0.575	0.605	723.33
000	84.20	513/0.018	0.518	0.548	0.204	0.635	0.665	886.67
0000	109.00	666/0.018	0.585	0.615	0.158	0.705	0.735	1120.00

Also Available :-

Nyvinmet

Similar to the Nyvin range but with the addition of a metal braid.

Nyvinmetsheath

Similar to the Nyvinmet range, with the addition of a sheath of a polyester film tape, a nylon braid and a nylon lacquer.

Du and Tri-Nyvin

Two or Three cores of Nyvin cable twisted together.

CONTACT US NOW FOR A QUOTATION

Tel. +44 (0) 1903 771336 Fax. +44 (0) 1903 772120 Email. sales@klaceycables.co.uk

INFORMATION GIVEN IS BASED ON GENERAL EXPERIENCE ONLY AND IS GIVEN IN GOOD FAITH. NO WARRANTY IS GIVEN WITH RESPECT TO THE INFORMATION AND USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT PRIOR TO ANY PARTICULAR USE.



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CURRENT RATING TABLES (Ratings in amperes, cable bunched in free air)

Max. continuous rating			Max. 5 minute rating			Max. 1 minute rating		
AWG	1 cable	3 cables	AWG	1 cable	3 cables	AWG	1 cable	3 cables
22	11	7	22	12	8	22	15	12
20	14	9	20	16	12	20	22	19
18	18	13	18	23	17	18	30	26
16	21	15	16	25	19	16	33	28
14	31	24	14	36	28	14	50	47
12	43	30	12	50	38	12	72	67
10	61	47	10	71	56	10	110	107
08	87	65	08	105	89	08	173	165
06	115	87	06	152	122	06	250	236
04	160	120	04	225	185	04	390	378
02	200	155	02	305	265	02	545	530
01	220	165	01	330	300	01	620	600
0	240	185	0	370	350	0	705	690
00	270	210/240*	00	420	410	00	820	810
000	300	235/265*	000	470	460	000	965	955
0000	350	270/305*	0000	570	555	0000	1225	1240

*Denotes two cables only

These current ratings are based on a temperature rise of 40°C and allow for an ambient temperature of 65°C. The maximum possible conductor temperature is 105°C. If the ambient temperature 't' is continuously in excess of 65°C the current rating should be multiplied by the factor 'k' : where $k = \sqrt{\frac{105-t}{40}}$

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