

Single Core “UNIPREN” Flexible Aircraft Cable

600V 90°C



Application

Flexible single core “UNIPREN” cables designed for aircraft wiring of circuits. For use where the voltage between conductors, or between conductor and metal braid or the aircraft structure does not exceed 600Vrms and in circuits where operating frequency does not exceed 1600 Hz. Incorporates outer layer of PCP to provide protection from abrasion, mechanical impact, oils, greases etc. May also be used in other applications where flexible power cables may be required.

Specifications

- In accordance with BS 2E 21.
- **Conductors:** Flexible tinned copper.
- **Insulation/Sheath:** Glass braid applied directly over the conductor plus additional covering of PCP.
- Flame retardant to BS EN 60332-1-2.
- **Temperature Rating:** 90°C maximum conductor operating temperature, -70°C for fixed application and flexible down to -40°C.
- **Voltage Rating:** 600Vrms.

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Anixter Number	PREN Size/Number	N.S.N. 6145-99-	Nominal Conductor Area	Nominal Conductor Stranding	Nominal O/D	Approximate Cable Weight	Colour	Maximum d.c. Conductor Resistance @ 20°C
			mm ²	#/mm	mm	kg/km		ohms/km
A9AB-1004-03	4	103-2389	0.35	19/0.152	2.54	12	Red	54.30
A9AB-1006-06	6	100-4628	0.55	19/0.193	2.67	14	Blue	33.80
A9AB-1012-05	12	943-4824	1.17	40/0.193	3.11	21	Yellow	16.10
A9AB-1018-06	18	943-6806	2.05	70/0.193	3.62	30	Blue	9.20
A9AB-1024-06	24	901-2567	3.22	110/0.193	4.13	45	Blue	5.85
A9AB-1035-06	35	945-5076	5.35	73/0.305	4.89	75	Blue	3.53
A9AB-1050-06	50	945-5074	8.76	120/0.305	6.22	104	Blue	2.15
A9AB-1070-06	70	999-7727	13.29	180/0.305	7.62	164	Blue	1.42
A9AB-1100-06	100	945-5075	21.48	294/0.305	9.14	268	Blue	0.877
A9AB-1135-06	135	628-2356	33.3	203/0.457	11.05	387	Blue	0.560
A9AB-1150-06	150	955-4105	40.64	248/0.457	12.26	461	Blue	0.463
A9AB-1200-06	200	947-9472	68.38	416/0.457	15.11	744	Blue	0.276
A9AB-2800-06	280	628-3124	109	666/0.457	18.67	1161	Blue	0.173

For further technical information see page 2:45.

Technical Specifications for UNIPREN

CURRENT RATING

The PREN number indicates the approximate current rating of the cable with all cables 18A and above coloured blue.

RESISTANCE TO FLUIDS

Fluid Represented	Test Fluid	Test Temperature	Maximum Change in Diameter
		°C	%
Fuel	70% iso-octane and 30% toluene, by volume	20 +/- 5	20
Hydraulic Fluid	80% ethylene glycol monoethyl ether + 20% castor oil, by volume	50 +/- 5	5

N.B. Cables are not suitable for use in areas where ester-based fluids are present.