

Chapter 14

NYPREN CABLES

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Introduction

1. Nypren cables are standard Pren cables, with an outer covering of nylon. This nylon sheath protects the insulation from the active synthetic lubricants and fluids now used in aircraft, and also increases its abrasion resistance. Single- and multi-core versions are available.

DESCRIPTION

2. The range of single-core Nypren cables available is listed in Table 1, and multi-core

cables in Table 2, which also give details of construction. Typical cables are illustrated in fig. 1.

Nypren

3. Nypren cables are single-core Pren cables with stranded tinned copper conductor, with an outer sheath of Nylon (for cables up to and including 24 amp.), or nylon braid and lacquer (for cables of 35 amp. and above).

TABLE 1
Range of single-core Nypren cables

Cable	Stores Ref.	Overall dia. (in.) (max.)	Resistance at 60 deg. F. (ohms per 1,000 yd.)	Size of conductor (no. of wires/in.)
Uninympren				
4	5E/3760	0.105	49.66	19/0-006
6	5E/3685	0.110	30.95	19/0-0076
9	5E/3761	0.115	17.82	33/0-0076
12	5E/3686	0.130	14.66	40/0-0076
18	5E/3687	0.150	8.41	70/0-0076

Table 1 — continued

Cable	Stores Ref.	Overall dia. (in.) (max.)	Resistance at 60 deg. F. (ohms per 1,000 yd.)	Size of conductor (no. of wires/in.)
<i>Uninypren—continued</i>				
24	5E/3688	0.170	5.34	110/0.0076
35	5E/3689	0.200	3.23	73/0.012
50	5E/3762	0.255	1.97	120/0.012
70	5E/3690	0.310	1.30	182/0.012
100	5E/3691	0.370	0.802	294/0.012
135	5E/3763	0.445	0.517	203/0.018
150	5E/3692	0.495	0.424	248/0.018
170	5E/3764	0.550	0.325	323/0.018
200	5E/3693	0.610	0.253	416/0.018
230	5E/3765	0.680	0.204	513/0.018
280	5E/3694	0.750	0.158	666/0.018
<i>Uninyprenal</i>				
35	5E/3772	0.260	3.279	41/0.020
50	5E/3773	0.325	1.923	70/0.020
70	5E/3774	0.385	1.281	105/0.020
100	5E/3775	0.465	0.804	168/0.020
135	5E/3776	0.570	0.507	266/0.020
150	5E/3777	0.630	0.399	342/0.020
170	5E/3778	0.705	0.327	418/0.020
200	5E/3779	0.775	0.255	532/0.020
<i>Uninyprenmet</i>				
4	5E/3780	0.130	49.66	19/0.006
6	5E/3718	0.135	30.95	19/0.0076
9	5E/3781	0.140	17.82	33/0.0076
12	5E/3719	0.170	14.66	40/0.0076
18	5E/3720	0.190	8.41	70/0.0076
24	5E/3721	0.210	5.34	110/0.0076
35	5E/3782	0.240	3.23	73/0.012
50	5E/3783	0.295	1.97	120/0.012

TABLE 2
Range of multi-core Nypren cables

Cable	Stores Ref.	Overall dia. (in.) (max.)
<i>Dunyprensheath</i>		
6	5E/3766	0.315
12	5E/3767	0.350
<i>Trinyprensheath</i>		
6	5E/3768	0.330
12	5E/3769	0.370
<i>Quintonyprensheath</i>		
6	5E/3770	0.390
<i>Septonyprensheath</i>		
6	5E/3771	0.420

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Nyprenal

4. These are Prenal cables, with an outer sheath of nylon braid and lacquer.

Nyprenmet

5. Nyprenmet cables are similar to Nypren cables in construction, but with an outer layer of tinned copper braiding. Only single-core cables are available.

Nyprensheath

6. These are Prensheath cables, with an outer layer of nylon braid and lacquer. They may be twin- or multi-core.

Current rating identification

7. All single-core cables with copper conductors up to and including 12 amp. have the polychloroprene coloured to indicate the nominal current rating, i.e., 4 amp. red, 6 amp. blue, 9 amp. brown, and 12 amp. yellow. This coding is also employed for multi-core cables, in which the outer polychloroprene sheath is coloured; individual

cores are coloured as described in para. 8. Cables of 18 amp. and above, and cables with aluminium conductors, are coloured blue and yellow respectively, and have the current rating printed in black at intervals along the cable.

Core identification

8. In multi-core Nypren cables, the polychloroprene covering of each core is coloured for core identification; the colour coding employed is shown in Table 3.

TABLE 3
Colour coding for core identification

No. of Cores	Colour of polychloroprene
2	Red and blue
3	Red, blue and yellow
5	Red, blue, yellow, green and white
7	Red, blue, yellow, green, white, black and brown

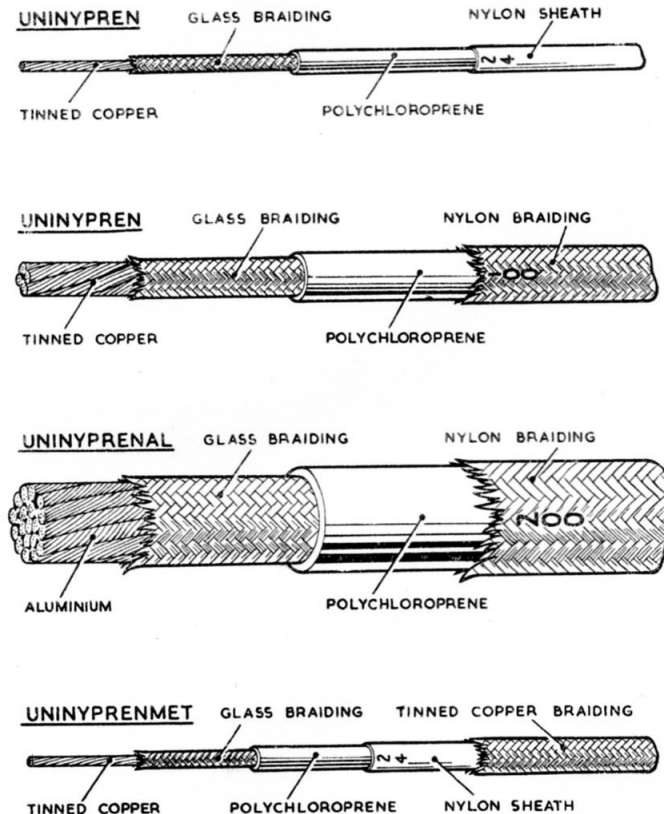


Fig. 1. Typical Nypren cables

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