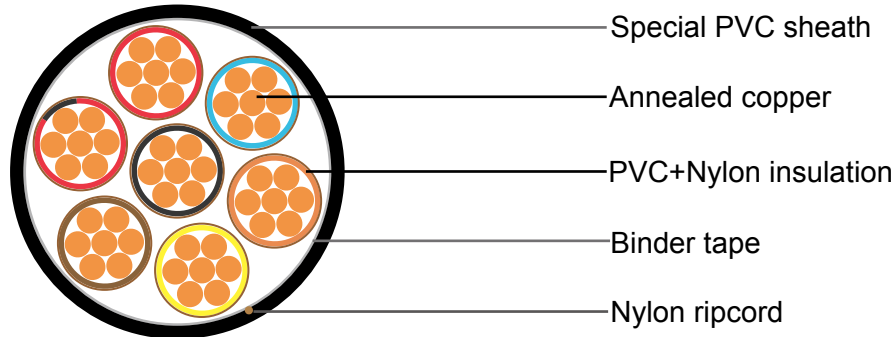




Cables for Oil Industry

Unscreened THHN/THWN-2 Cable



Unscreened THHN/THWN-2 Cable

Applications

These cables are used in class 1, Division 2 Hazardous locations, may be installed in trays, wire ways, ducts, conduit and aerially when properly supported by a messenger. They are approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required.

Standards

ICEA S-73-532; UL 1277; UL 83

Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and B8

Insulation: Flame-retardant PVC/Nylon type THHN/THWN-2 per UL 83

Color coded per Method #1-E2 per ICEA S-73-532

Binder tape

Ripcord: Nylon

Jacket: Special PVC, flame retardant, UL listed sunlight and moisture resistant, meeting the requirements of UL 1277. Color: Black

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance

10 AWG, 600V, Rated 90°C

No. of Cores	PVC Thickness	Nylon Thickness	Jacket Thickness	Nom. O.D.	Approx Weight	Ampacity
	mm	mm	mm	mm	kg/km	amps
2 Flat	0.51	0.10	1.14	6.37x10.58	166	40
3	0.51	0.10	1.14	11.37	237	40
4	0.51	0.10	1.14	12.45	298	32/40
5	0.51	0.10	1.14	14.41	391	32
6	0.51	0.10	1.14	15.67	482	32
7	0.51	0.10	1.14	15.67	515	28
8	0.51	0.10	1.14	16.97	591	28
9	0.51	0.10	1.14	18.31	672	28



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10	0.51	0.10	1.52	19.57	726	20
11	0.51	0.10	1.52	19.86	789	20
12	0.51	0.10	1.52	20.49	852	20
13	0.51	0.10	2.03	21.88	961	20
14	0.51	0.10	2.03	22.60	1094	20
15	0.51	0.10	2.03	23.18	1161	20
16	0.51	0.10	2.03	23.81	1183	20
19	0.51	0.10	2.03	25.07	1360	20
20	0.51	0.10	2.03	25.82	1420	20
25	0.51	0.10	2.03	28.97	1753	18
30	0.51	0.10	2.03	30.98	2075	18
37	0.51	0.10	2.03	33.45	2520	16
40	0.51	0.10	2.03	34.75	2714	16
45	0.51	0.10	2.03	36.85	3036	14
50	0.51	0.10	2.03	38.27	3353	14

12 AWG, 600V, Rated 90°C

No. of Cores	PVC Thickness	Nylon Thickness	Jacket Thickness	Nom. O.D.	Approx. Weight	Ampacity
	mm	mm	mm	mm	kg/km	amps
2 Flat	0.38	0.10	1.14	5.72 x9.12	115	30.0
3	0.38	0.10	1.14	9.56	156	30.0
4	0.38	0.10	1.14	10.36	188	24.0/30.0
5	0.38	0.10	1.14	11.39	247	24.0
6	0.38	0.10	1.14	12.40	292	24.0
7	0.38	0.10	1.14	12.40	320	21.0
8	0.38	0.10	1.14	14.20	377	21.0
9	0.38	0.10	1.52	15.27	440	21.0
10	0.38	0.10	1.52	16.28	488	15.0
11	0.38	0.10	1.52	16.51	531	15.0
12	0.38	0.10	1.52	17.02	560	15.0
13	0.38	0.10	1.52	17.31	616	15.0
14	0.38	0.10	1.52	17.88	659	15.0
15	0.38	0.10	1.52	18.35	700	15.0
16	0.38	0.10	1.52	18.86	729	15.0
19	0.38	0.10	1.52	19.86	853	15.0
20	0.38	0.10	1.52	20.47	866	15.0
25	0.38	0.10	2.03	24.00	1158	13.5
30	0.38	0.10	2.03	25.61	1362	13.5
37	0.38	0.10	2.03	27.58	1647	12.0



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40	0.38	0.10	2.03	28.62	1810	12.0
45	0.38	0.10	2.03	30.30	2021	10.5
50	0.38	0.10	2.03	31.44	2228	10.5

14 AWG, 600V, Rated 90°C

No. of Cores	PVC Thickness	Nylon Thickness	Jacket Thickness	Nom. O.D.	Approx. Weight	Ampacity
	mm	mm	mm	mm	kg/km	amps
2 Flat	0.38	0.10	1.14	5.21 x 8.00	86	25.0
3	0.38	0.10	1.14	8.52	114	25.0
4	0.38	0.10	1.14	9.25	135	20.0/25.0
5	0.38	0.10	1.14	10.09	174	20.0
6	0.38	0.10	1.14	10.95	204	20.0
7	0.38	0.10	1.14	10.95	226	17.5
8	0.38	0.10	1.14	11.84	260	17.5
9	0.38	0.10	1.14	12.76	290	17.5
10	0.38	0.10	1.52	14.38	345	12.5
11	0.38	0.10	1.52	14.58	372	12.5
12	0.38	0.10	1.52	15.01	396	12.5
13	0.38	0.10	1.52	15.27	427	12.5
14	0.38	0.10	1.52	15.76	457	12.5
15	0.38	0.10	1.52	16.16	485	12.5
16	0.38	0.10	1.52	16.59	510	12.5
19	0.38	0.10	1.52	17.45	589	12.5
20	0.38	0.10	1.52	17.97	620	12.5
25	0.38	0.10	1.52	20.12	771	11.3
30	0.38	0.10	2.03	22.51	949	11.3
37	0.38	0.10	2.03	24.21	1152	10.0
40	0.38	0.10	2.03	25.10	1240	10.0
45	0.38	0.10	2.03	26.54	1381	8.8
50	0.38	0.10	2.03	27.51	1446	8.8