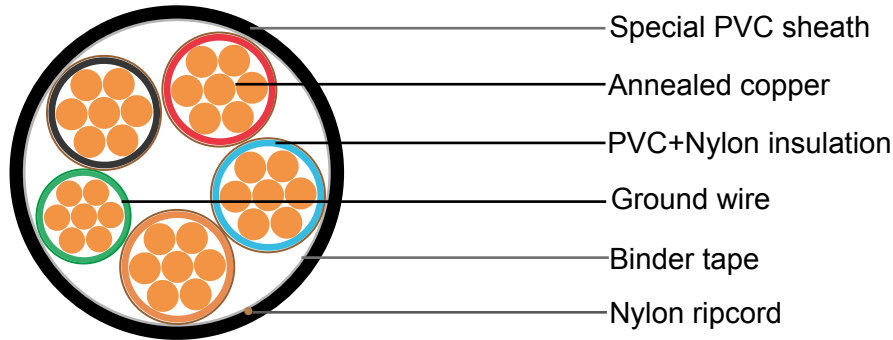


Cables for Oil Industry

Unscreened THHN/THWN-2 Cable with Ground Wire



Unscreened THHN/THWN-2 Cable with Ground Wire

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; ICEA S-95-658; UL 1277; UL 83

Construction

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

Ground wires: Sized as required by UL 1277. Sizes 14 AWG to 6 AWG have an insulated green ground wire. Sizes 4 AWG and larger have a bare ground wire.

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

3 Cores, 600V, Rated 90°C

Conductor Size (AWG/ kcmil)	Ground Wire Size (AWG)	Insulation Thickness		Jacket Thickness (mm)	Nom. O.D. (mm)	Approx. Weight (kg/km)	Ampacity (amps)
		PVC(mm)	Nylon(mm)				
14	14	0.38	0.10	1.14	9.25	135	25
12	12	0.38	0.10	1.14	10.36	188	30
10	10	0.51	0.10	1.14	11.66	284	40
8	10	0.76	0.13	1.52	15.49	449	55



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6	8	0.76	0.13	1.52	18.42	628	75
4	8	1.02	0.15	2.03	21.77	963	95
2	6	1.02	0.15	2.03	25.30	1433	130
1	6	1.27	0.18	2.03	28.14	1720	150
1/0	6	1.27	0.18	2.03	30.66	2159	170
2/0	6	1.27	0.18	2.03	32.94	2586	195
3/0	4	1.27	0.18	2.03	35.81	3158	225
4/0	4	1.27	0.18	2.03	38.86	3834	260
250	4	1.52	0.20	2.79	42.09	4508	290
350	3	1.52	0.20	2.79	49.81	6469	350
500	2	1.52	0.20	2.79	56.74	8660	430

4 Cores, 600V, Rated 90°C

Conductor Size	Ground Wire Size	Insulation Thickness		Jacket Thickness	Nom. O.D.	Approx. Weight	Ampacity	
		PVC(mm)	Nylon(mm)				(amps)	(amps)*
8	10	0.76	0.13	1.52	17.22	561	44	55
6	8	0.76	0.13	1.52	19.81	813	60	75
4	8	1.02	0.15	2.03	23.93	1222	76	95
2	6	1.02	0.15	2.03	27.56	1823	104	130
1	6	1.27	0.18	2.03	31.67	2261	120	150
1/0	6	1.27	0.18	2.03	33.38	2695	136	170
2/0	6	1.27	0.18	2.03	36.88	3405	156	195
3/0	4	1.27	0.18	2.03	40.00	4101	180	225
4/0	4	1.27	0.18	2.79	44.91	5115	208	260
250	4	1.52	0.20	2.79	49.20	6021	232	290
350	3	1.52	0.20	2.79	55.37	8155	280	350
500	2	1.52	0.20	2.79	63.35	11271	344	430

*Where the 4th conductor is the neutral of a balanced 3 phase system.