Application

These cables(THHN (Thermoplastic High Heat-resistant Nylon-coated), THWN (Thermoplastic Heat and Water-resistant Nylon-coated) are ideal for general use in commercial and industrial construction, as well as installations where resistance to oils and gasoline is essential. It is suitable for power and control circuits in recognized raceways, whether in wet or dry locations, and even in the presence of gases, gasoline, and chemicals. Additionally, it serves well as machine tool and switchboard wiring.

Performance

Maximum Operating Voltage: 600 volts
Maximum Conductor Temperature:
Dry locations (THHN): 90°C
Dry and wet locations (THWN): 75°C
In oil (Gasoline and Oil resistant II): 75°C
Chemical Performance
Chemical & Oil Resistance: Exhibits excellent resistance to chemicals and oils.
Mechanical Performance
Minimum Bending Radius: 4 times the cable diameter.
Fire Performance
Flame Retardant: Complies with UL VW1 standards.
Thermal Performance
Maximum Service Temperature: 90℃
Maximum Short-Circuit Temperature: 250℃ (max. 5s)

Feature

Versatile Resistance: Exhibits good resistance to moisture, heat, oil, gasoline, chemicals, and grease.
Thermal Overload Suitability: Suitable for installation in areas where thermal overload is a concern.
Quality Assurance: Manufactured under strict quality control measures.
Flame Retardant: UL listed as VW-1 for flame retardancy.
Smooth Pulling: The smooth nylon jacket aids in easier cable pulling during installation.
Durable Construction: Demonstrates superior abrasion and mechanical properties.

Construction

Conductor:
Annealed solid copper conductor (Size: 14-10 AWG)
Annealed stranded copper conductor (Size: 14-2 AWG)
Annealed compressed stranded class B copper conductor (Size: 1 AWG-1000 MCM)
Insulation: PVC (Available in red, blue, black, brown, yellow, green, green/yellow, or other colors)
Jacket: Nylon

Specification

-UL standard UL-83, UL-758, UL-1063, UL-1581, UL-2556
-Complies with UL's VW-1 (vertical wire) Flame Test.

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Size	Conductor			Insulation		Nylon Jacket		Approx. Weight
	No. of Wires	Dia. of Wires	Conductor Dia.	Nominal Thickness	Insulation Dia.	Nominal Thickness	Overall Dia.	
AWG/kcmil	No.	mm	mm	mm	mm	mm	mm	kg/km
14	1	1.63	1.63	0.39	2.41	0.11	2.63	23.4
12	1	2.06	2.06	0.39	2.84	0.11	3.06	35.5
10	1	2.59	2.59	0.51	3.61	0.11	3.83	56
14	7	0.62	1.86	0.39	2.64	0.11	2.86	24.5
12	7	0.78	2.34	0.39	3.12	0.11	3.34	36.7
10	7	0.98	2.94	0.51	3.96	0.11	4.18	57.8
8	7	1.24	3.72	0.77	5.26	0.13	5.52	95.5
6	7	1.56	4.68	0.77	6.22	0.13	6.48	144
4	7	1.96	5.88	1.02	7.92	0.16	8.24	229.2
3	7	2.2	6.6	1.02	8.64	0.16	8.96	282.7
2	7	2.48	7.44	1.02	9.48	0.16	9.8	352.3
1	19	1.69	8.2	1.27	10.74	0.18	11.1	450.7
1/0	19	1.89	9.2	1.27	11.74	0.18	12.1	554.2
2/0	19	2.13	10.34	1.27	12.88	0.18	13.24	692.2
3/0	19	2.39	11.61	1.27	14.15	0.18	14.51	859.5
4/0	19	2.68	13.01	1.27	15.55	0.18	15.91	1067.5
250	37	2.09	14.2	1.53	17.26	0.21	17.68	1280.1
300	37	2.29	15.55	1.53	18.61	0.21	19.03	1521.9
350	37	2.47	16.79	1.53	19.85	0.21	20.27	1757.7
400	37	2.64	17.96	1.53	21.02	0.21	21.44	1996.1
500	37	2.95	20.05	1.53	23.11	0.21	23.53	2469.7
600	61	2.52	22	1.78	25.56	0.23	26.02	2994.7
750	61	2.82	24.64	1.78	28.2	0.23	28.66	3718.1
1000	61	3.25	28.4	1.78	31.96	0.23	32.42	4891.8

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