

FIREX®-II TECK90 (XLPE) 600 Volts

FIREX®-II TECK90 10 AWG (XLPE) 600 Volts

Contact

Industrial Cables
Phone: 845-469-2141
USA.IndustrialCable@nexans.com

Part Number: 10 AWG

Nexans FIREX®-II TECK90 Cables are intended for use in various primary and secondary industries, including chemical processing plants, refineries and general factory environments.

DESCRIPTION

Even in the most demanding industrial and resource industry applications, Nexans FIREX®-II TECK90 cables have proven to have a superior service and maintenance record.

FIREX®-II TECK90 Cables utilize low acid gas, low flame spread PVC jacket compounds to ensure maximum safety to personnel and equipment in the event of fire.

Applications

FIREX®-II TECK90 Cables, originally developed for use in Canadian mines, are flexible, resistant to mechanical abuse, corrosion resistant, compact and reliable. They are suitable for a wide range of applications, including ALL hazardous locations - Class I, Division 1 and 2; Class II, Division 1 and 2; and Class III.

Industries such as pulp and paper, chemical, petroleum and other primary and secondary manufacturing industries have used FIREX®-II TECK90 Cables, particularly in areas where cables are subject to the risk of mechanical damage and chemical attack.

Commercial applications for FIREX®-II TECK90 Cables include apartment buildings and commercial complexes.

FIREX®-II TECK90 Cables can be relocated easily because they are rugged and flexible. They can be used in both dry and wet locations in open wiring, in ventilated, non-ventilated and ladder-type cable troughs, in ventilated flexible cableways, and for direct burial.

TECK90 Cables are also suitable for service entrance installations - above and below ground.

Highlights

Nexans FIREX®-II TECK90 Cables are:

- Available from stock
- Versatile
- Flexible
- Resistant to Mechanical Abuse and Corrosion
- Compact and Reliable
- "HL" and "FT4" Rated per CSA
- 90°C to -40°C
- Low Acid Gas (AG14)
- Inner and outer jackets are sunlight resistant
- LEAD FREE
- RoHS compliant



STANDARDS

National CSA C22.2 N° 131;
CSA C22.2 N° 239

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Marking and Identification

The inner jackets of Nexans FIREX®-II TECK90 cables are printed: SUN RES.

The outer jackets of Nexans FIREX®-II TECK90 cables are printed: (mon/year) NEXANS FIREX®-II TECK90 XLPE (-40°C) CSA LL19376 F HL FT4 AG14 SUN RES along with conductor size, number of conductors and sequential metre marking.

Conductor Identification:

2 Conductors: Black, White

3 Conductors: Red, Black, Blue

4 Conductors: Red, Black, Blue, White

5 or More Conductors: Black with Number Coding

CHARACTERISTICS

Construction characteristics

Conductor material	Copper
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Electrical characteristics

Maximum operating voltage	600 V
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Usage characteristics

Maximum operating temperature	90 °C
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10 AWG TECK90 600 V 12 AWG BONDING CONDUCTOR AMPACITY 30 A*

Number of Conductors	Insulation Thickness		Inner Jacket Thickness		Nominal Diameters						Approximate Net Cable Weight with Aluminum Armour		Approximate Copper Content
					Inner Jacket		Armour		Outer Covering				
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	lb/kft	kg/km	kg/km
2	0.030	0.76	0.045	1.14	0.452	11.48	0.684	17.37	0.769	19.53	272	405	128
3	0.030	0.76	0.045	1.14	0.481	12.23	0.712	18.08	0.798	20.27	339	504	176
4	0.030	0.76	0.045	1.14	0.56	14.22	0.783	19.89	0.867	22.02	383	570	225
5	0.030	0.76	0.06	1.52	0.604	15.35	0.833	21.16	0.918	23.32	421	627	274
6	0.030	0.76	0.06	1.52	0.671	17.04	0.9	22.86	0.985	25.01	517	770	323
7	0.030	0.76	0.06	1.52	0.699	17.75	0.928	23.57	1.018	25.85	539	802	371
8	0.030	0.76	0.06	1.52	0.726	18.44	0.954	24.23	1.047	26.59	617	918	420
9	0.030	0.76	0.06	1.52	0.766	19.45	1.006	25.55	1.094	27.79	633	942	469
10	0.030	0.76	0.06	1.52	0.84	21.33	1.1	27.94	1.188	30.18	776	1154	518
11	0.030	0.76	0.06	1.52	0.879	22.33	1.135	28.83	1.222	31.03	795	1183	566
12	0.030	0.76	0.08	2.03	0.917	23.29	1.178	29.92	1.266	32.16	885	1318	615
15	0.030	0.76	0.08	2.03	0.987	25.06	1.247	31.67	1.335	33.91	1056	1571	761
19	0.030	0.76	0.08	2.03	1.066	27.07	1.321	33.55	1.414	35.92	1209	1800	956
20	0.030	0.76	0.08	2.03	1.098	27.89	1.357	34.47	1.445	36.7	1291	1966	1005
25	0.030	0.76	0.08	2.03	1.229	31.22	1.504	38.2	1.596	40.54	1528	2274	1248
30	0.030	0.76	0.08	2.03	1.317	33.45	1.573	39.95	1.68	42.67	1770	2634	1492
37	0.030	0.76	0.08	2.03	1.494	37.96	1.769	44.93	1.864	47.35	2097	3027	1833
40	0.030	0.76	0.08	2.03	1.567	39.8	1.917	48.69	1.967	49.96	2298	3421	1979
50	0.030	0.76	0.08	2.03	1.701	43.21	2.051	52.1	2.105	53.47	2743	4082	2467
60	0.030	0.76	0.11	2.79	1.91	48.5	2.26	57.4	2.314	58.78	3303	4916	2954
80	0.030	0.76	0.11	2.79	2.133	54.18	2.483	63.07	2.57	65.28	4225	6288	3929
90	0.030	0.76	0.11	2.79	2.246	57.05	2.596	65.94	2.683	68.15	4656	6928	4416

*Canadian Electrical Code Table 5C will apply if cables used for power applications or the conductors are continuously loaded.

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MULTICONDUCTOR TECK90 (XLPE) -40°C 600V 10AWG FITTINGS

Number of Conductors	Fittings			
	Appleton	T & B	CMP Products	Cooper Crouse-Hinds
2	TMC5099	10465-TB/ST050-465	TMC075A	TECK050-3
3	TMC5099	10465-TB/ST050-465	TMC075A	TECK050-3
4	TMC5099	10465-TB/ST050-465	TMC075A	TECK050-3
5	TMC5099	10466/ST050-466	TMC075A	TECK050-4
6	TMC75121	10467/ST075-467	TMC075A	TECK075-5
7	TMC75121	10467/ST075-467	TMC100A	TECK075-5
8	TMC75121	10467/ST075-467	TMC100A	TECK075-6
9	TMC75121	10468/ST075-468	TMC100A	TECK075-6
10	TMC100138	10468/ST100-468	TMC100A	TECK075-6
11	TMC100138	10469/ST100-469	TMC125A	TECK100-7
12	TMC100138	10469/ST100-469	TMC125A	TECK100-7
15	TMC100138	10469/ST100-469	TMC125A	TECK100-7
19	TMC125163	10470/ST125-470	TMC125A	TECK125-8
20	TMC125163	10470/ST125-470	TMC150A	TECK125-8
25	TMC125188	10550/ST125-550	TMC150A	TECK125-8
30	TMC125188	10471/ST125-471	TMC150A	TECK125-10
37	TMC150200	10472/ST150-472	TMC200SA	TECK150-11
40	TMC150220	10473/ST150-473	TMC200A	TECK150-12
50	TMC200238	10551/ST200-551	TMC200A	TECK200-14
60	TMC200275	10474/ST200-474	TMC250SA	TECK200-15
80	TMC200275	10553/ST250-477	TMC250A	TECK200-16
90	TMC200275	10553/ST250-478	TMC300A	TECK200-16

*Canadian Electrical Code Table 5C will apply if cable is used for power applications or the conductors are continuously loaded.

SELLING INFORMATION

Caution Notice

In case of fire, well maintained early warning smoke detectors will give an alarm long before non-metallic coverings become combustible.

However, in spite of the widespread and long-standing use of PVC in residential and commercial buildings, all purchasers of PVC insulated/ jacketed products should be aware of the following:

- Non-metallic coverings of electrical cables can burn and may transmit fire when ignited.
- Burning non-metallic coverings may emit acid gases which are toxic and may generate dense smoke.

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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- Emission of acid gases may corrode metal in the vicinity; e.g. sensitive instruments and reinforcing rods in cement.