





CONTACT

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STANDARDS

Product CSA C22.2 N° 131: CSA C22.2 N° 174

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

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

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

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.

Meets the FT4 flame spread test.

Limited Smoke Zero Halogen is recognized by CSA C22.2 No 2556 with markings ST1-FT4 HAL FREE. This option is available upon request.

Industries such as pulp and paper, chemical, petroleum and other primary and secondary manufacturing industries have usedTECK90 Cables, particularly in areas where cables are subject to the risk of mechanical damage and chemical attack.

Commercial applications for TECK90 Cables include apartment buildings and commercial complexes.

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 TECK90 Cables are:

- · Available from stock
- Versatile & Flexible
- Resistant to Mechanical Abuse and Corrosion
- Compact and Reliable
- 90°C to -40°C
- Low Acid Gas (AG14)
- · Inner and outer jackets are sunlight resistant
- LEAD FREE & RoHS compliant
- "HL" and "FT4" Rated per CSA
- ST1 rating available upon request



CHARACTERISTICS

Construction characteristics	
Conductor Material	Copper
Insulation	XLPE
Insulation Colour	Black
Electrical characteristics	
Maximum operating voltage	1 kV
Usage characteristics	
Maximum operating temperature	90 °C
Minimum installation temperature	-40 °C

TECK90 1 KV

Nexans Ref.	Name	Cond. Dia. (mm)	Cond. Dia. [inches]	Size	# of Co nd.	Bare Grd (AWG)	Cabl e Dia. [mm]	Cable Dia. [inches]	Approx. Net Weight [kg/km]	Approx. Net Weight [lb/kft]	Cu Conten t [kg/km]	nt	
12000213	2C12(7) TECK90 1KV	2.32	0.09	12 AWG	2	14	20.2	0.8	405	271	80	54	
12000302	3C12(7) TECK90 1KV	2.32	0.09	12 AWG	3	14	20.9	0.82	441	296	111	74	
12000301	3C10(7) TECK90 1KV	2.95	0.12	10 AWG	3	12	22.6	0.89	567	380	176	118	
12000304	2C8(7) TECK90 1KV	3.71	0.15	8 AWG	2	10	23.5	0.93	606	406	203	136	
12000075	3C8(7) TECK90 1KV	3.71	0.15	8 AWG	3	10	23.9	0.94	730	490	281	189	
12000310	4C8(7) TECK90 1KV	3.71	0.15	8 AWG	4	10	26.1	1.03	867	581	358	240	
12013455	3C8(7) TECK90 1KV x300m	3.71	23.81	8 AWG	3	10	23.9	0.94	730	489	281	189	
12000082	2C6(7) TECK90 1KV	4.67	0.18	6 AWG	2	8	26.8	1.06	811	544	323	217	
12000076	3C6(7) TECK90 1KV	4.67	0.18	6 AWG	3	8	28.6	1.13	959	644	446	299	
12013456	3C6(7) TECK90 1KV x300m	4.67	0.18	6 AWG	3	8	28.6	1.13	959	644	446	299	
12000110	4C6(7) TECK90 1KV	4.67	1.202	6 AWG	4	8	32.5	1.28	1247	837	569	382	



Nexans Ref.	Name	Cond. Dia. (mm)	Cond. Dia. [inches]	Size	# of Co nd.		Cabl e Dia. [mm]	Cable Dia. [inches]	Approx. Net Weight [kg/km]	Approx. Net Weight [lb/kft]	Cu Conten t [kg/km]	nt	
12000502	4C4(7) TECK90 1KV	5.89	0.23	4 AWG	4	8	34.3	1.35	1669	1120	861	578	
12000077	3C4(7) TECK90 1KV	5.89	1.24	4 AWG	3	8	32.1	1.26	1375	922	665	446	
12000303	3C3(7) TECK90 1KV	6.60	0.26	3 AWG	3	6	33.7	1.33	1526	1024	866	581	
12000256	4C3(7) TECK90 1KV	6.60	1.42	3 AWG	4	6	36.6	1.44	2022	1357	1114	748	
12000078	3C2(7) TECK90 1KV	7.42	0.29	2 AWG	3	6	35.3	1.39	1896	1272	1057	709	
12000111	4C2(7) TECK90 1KV	7.42	37.63	2 AWG	4	6	38.1	1.5	2351	1578	1369	919	
12000079	3C1(18) TECK90 1KV	8.43	0.33	1 AWG	3	6	39.3	1.55	2291	1538	1304	875	
12000080	3C1/0(18) TECK90 1KV	9.47	0.37	1/0 AWG	3	6	42	1.65	2757	1850	1609	1080	
12000081	3C2/0(18) TECK90 1KV	10.64	0.42	2/0 AWG	3	6	43.9	1.73	3222	2165	1997	1340	
12000104	4C2/0(18) TECK90 1KV	10.64	0.42	2/0 AWG	4	6	47.4	1.87	4034	2711	2621	1759	
12000098	3C3/0(18) TECK90 1KV	11.94	0.47	3/0 AWG	3	4	46.6	1.83	3827	2568	2558	1717	
12000452	4C3/0(18) TECK90 1KV	11.94	0.47	3/0 AWG	4	4	49.8	1.96	5053	3391	3345	2245	
12000099	3C4/0(18) TECK90 1KV	13.41	0.53	4/0 AWG	3	4	48.9	1.93	4733	3176	3173	2130	
12000456	4C4/0(18) TECK90 1KV	13.41	0.53	4/0 AWG	4	4	54.4	2.14	6239	4187	4166	2796	
12000100	3C250(36) TECK90 1KV	14.61	0.58	250 MCM	3	4	57.2	2.25	5700	3825	3716	2494	
12000101	3C350(36) TECK90 1KV	17.30	0.68	350 MCM	3	3	62.5	2.46	7426	4984	5171	3470	



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12000217	4C350(36) TECK90 1KV	17.30	0.68	350 MCM	4	3	67.4	2.65	9522	6390	6813	4572	
12000506	1C350(36) TECK90 1KV	17.30	36.80	350 MCM	1	3	36.7	1.44	2842	1907	2062	1384	
12000507	1C500(36) TECK90 1KV	20.65	0.81	500 MCM	1		40.3	1.59	3742	2511	2864	1922	
12000454	4C500(36) TECK90 1KV	20.65	2.905	500 MCM	4	3	76.7	3.02	12732	8545	9622	6458	
12000102	3C500(36) TECK90 1KV	20.65	68.20	500 MCM	3	3	70	2.76	9932	6666	7278	4885	
12000794	1C750(58) TECK90 1KV	25.35	1.00	750 MCM	1		46	1.81	5429	3644	4189	2811	



TECK90 1 kV

MARKING AND IDENTIFICATION

The inner jackets of Nexans TECK90 cables are printed: SUN RES.

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

TECK90 1C

Conductor Identification: Black

TECK90 2C

Conductor Identification: Black, White
- 14 AWG to 2 AWG: Coloured Insulation
- 1 AWG to 500 kcmil: Coloured Stripes

TECK90 3C

Conductor Identification: Red, Black, Blue

- 14 AWG to 2 AWG: Coloured Insulation
- 1 AWG to 500 kcmil: Coloured Stripes

TECK90 4C

Conductor Identification: Red, Black, Blue, White

14 AWG to 2 AWG: Coloured Insulation1 AWG to 500 kcmil: Coloured Stripes

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