

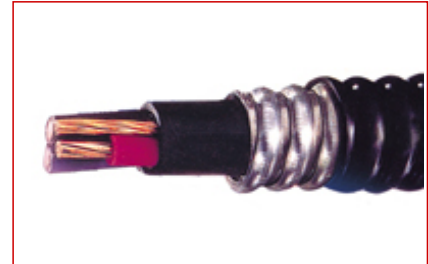
FIREX®-II TECK90 (XLPE) 600 V

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.

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

FIREX®-II TECK90 (XLPE) 600 V

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
Electrical characteristics	
Maximum operating voltage	600 V
Usage characteristics	
Maximum operating temperature	90 °C

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

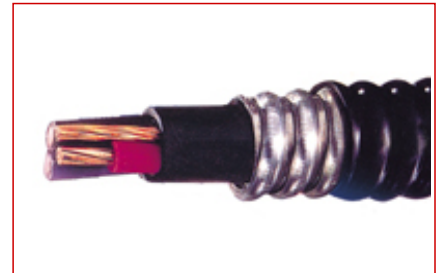
FIREX®-II TECK90 (XLPE) 600 V **FIREX®-II TECK90 10 AWG (XLPE) 600 V** **Part Number: 10 AWG**

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

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- Inner and outer jackets are sunlight resistant
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CSA C22.2 N° 239

Marking and Identification

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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
Electrical characteristics	
Maximum operating voltage	600 V
Usage characteristics	
Maximum operating temperature	90 °C

FIREX®-II TECK90 (XLPE) 600 V
FIREX®-II TECK90 10 AWG (XLPE) 600 V
Part Number: 10 AWG

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 are used for power applications or the conductors are continuously loaded.

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

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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.

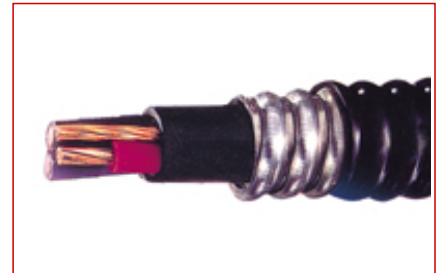
FIREX®-II TECK90 (XLPE) 600 V **FIREX®-II TECK90 12 AWG (XLPE) 600 V** **Part Number: 12 AWG**

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

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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.

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

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
Electrical characteristics	
Maximum operating voltage	600 V
Usage characteristics	
Maximum operating temperature	90 °C

FIREX®-II TECK90 (XLPE) 600 V
FIREX®-II TECK90 12 AWG (XLPE) 600 V
Part Number: 12 AWG

12 AWG TECK90 600 V 14 AWG Bonding Conductor Ampacity 20 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	0.405	10.29	0.636	16.15	0.724	18.39	238	354	80
3	0.030	0.76	0.045	1.14	0.429	10.9	0.660	16.76	0.745	18.92	280	417	111
4	0.030	0.76	0.045	1.14	0.502	12.75	0.733	18.62	0.817	20.75	298	443	141
5	0.030	0.76	0.045	1.14	0.522	13.26	0.752	19.1	0.839	21.31	347	516	172
6	0.030	0.76	0.060	1.52	0.599	15.21	0.828	21.03	0.912	23.16	402	598	203
7	0.030	0.76	0.060	1.52	0.614	15.6	0.843	21.41	0.927	23.55	438	652	233
8	0.030	0.76	0.060	1.52	0.656	16.66	0.884	22.45	0.970	24.66	476	708	264
9	0.030	0.76	0.060	1.52	0.700	17.78	0.940	23.87	1.014	25.76	496	738	295
10	0.030	0.76	0.060	1.52	0.744	18.9	0.988	25.1	1.077	27.35	531	790	325
11	0.030	0.76	0.060	1.52	0.760	19.3	1.028	26.11	1.096	27.84	622	925	356
12	0.030	0.76	0.060	1.52	0.776	19.71	1.037	26.34	1.125	28.57	651	969	387
15	0.030	0.76	0.060	1.52	0.842	21.39	1.101	27.97	1.189	30.2	755	1123	478
19	0.030	0.76	0.080	2.03	0.905	22.99	1.160	29.46	1.233	31.32	937	1394	601
20	0.030	0.76	0.080	2.03	0.974	24.74	1.233	31.32	1.321	33.55	973	1448	632
25	0.030	0.76	0.080	2.03	1.093	27.76	1.348	34.24	1.436	36.47	1165	1733	785
30	0.030	0.76	0.080	2.03	1.167	29.64	1.421	36.09	1.509	38.32	1302	1938	938
37	0.030	0.76	0.080	2.03	1.308	33.22	1.583	40.2	1.678	42.62	1495	2224	1153
40	0.030	0.76	0.080	2.03	1.367	34.72	1.642	41.71	1.737	44.12	1593	2370	1245
50	0.030	0.76	0.080	2.03	1.483	37.67	1.758	44.65	1.853	47.06	1884	2804	1551
60	0.030	0.76	0.080	2.03	1.615	41.03	1.965	49.91	2.015	51.18	2311	3439	1857
80	0.030	0.76	0.110	2.79	1.865	47.37	2.215	56.26	2.269	57.63	3021	4495	2470
90	0.030	0.76	0.110	2.79	1.962	49.85	2.312	58.72	2.366	60.09	3318	4937	2777

12AWG TECK90 600 V Fitting Sizes

Number of Conductors	Fittings			
	Appleton	T & B	CMP Products	Cooper Crouse-Hinds
2	TMC5076	10464/ST050-464	TMC050A	TECK050-2
3	TMC5099	10464/ST050-464	TMC075A	TECK050-2
4	TMC5099	10465-TB/ST050-465	TMC075A	TECK050-3
5	TMC5099	10465-TB/ST050-465	TMC075A	TECK050-3
6	TMC5099	10466/ST050-466	TMC075A	TECK050-4
7	TMC5099	10466/ST075-467	TMC075A	TECK050-4
8	TMC75121	10467/ST075-467	TMC100A	TECK050-4
9	TMC75121	10467/ST075-467	TMC100A	TECK075-5
10	TMC75121	10468/ST075-468	TMC100A	TECK075-6
11	TMC75121	10468/ST075-468	TMC100A	TECK075-6
12	TMC75121	10468/ST075-468	TMC100A	TECK075-6
15	TMC100138	10468/ST075-468	TMC100A	TECK100-7
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30	TMC125163	10470/ST125-470	TMC150A	TECK125-8
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40	TMC125188	10471/ST125-471	TMC200SA	TECK150-11
50	TMC150200	10472/ST150-472	TMC200SA	TECK150-11
60	TMC150220	10473/ST200-551	TMC200A	TECK150-12
80	TMC200275	10474/ST200-474	TMC250SA	TECK200-14
90	TMC200275	10475/ST200-475	TMC250A	TECK200-15

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FIREX®-II TECK90 (XLPE) 600 V

FIREX®-II TECK90 14 AWG (XLPE) 600 V

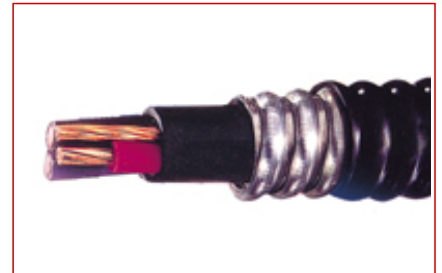
Part Number: 14 AWG

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- 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

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CSA C22.2 N° 239**

Marking and Identification

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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
Electrical characteristics	
Maximum operating voltage	600 V
Usage characteristics	
Maximum operating temperature	90 °C

FIREX®-II TECK90 (XLPE) 600 V
FIREX®-II TECK90 14 AWG (XLPE) 600 V
Part Number: 14 AWG

14 AWG TECK90 600 V 14 AWG Bonding Conductor Ampacity 15 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	0.369	9.37	0.600	15.24	0.688	17.48	191	284	57
3	0.030	0.76	0.045	1.14	0.390	9.91	0.621	15.77	0.709	18.01	225	335	77
4	0.030	0.76	0.045	1.14	0.444	11.27	0.676	17.17	0.761	19.33	266	396	96
5	0.030	0.76	0.045	1.14	0.472	11.99	0.703	17.86	0.787	19.99	306	455	115
6	0.030	0.76	0.045	1.14	0.515	13.08	0.743	18.87	0.828	21.03	316	471	134
7	0.030	0.76	0.045	1.14	0.522	13.26	0.755	19.18	0.844	21.44	338	502	154
8	0.030	0.76	0.060	1.52	0.597	15.16	0.825	20.96	0.909	23.09	384	571	173
9	0.030	0.76	0.060	1.52	0.608	15.45	0.836	21.23	0.923	23.44	409	609	192
10	0.030	0.76	0.060	1.52	0.671	17.04	0.898	22.81	0.984	24.99	448	667	212
11	0.030	0.76	0.060	1.52	0.679	17.25	0.906	23.01	0.992	25.18	466	693	231
12	0.030	0.76	0.060	1.52	0.700	17.78	0.927	23.55	1.013	25.73	489	728	250
15	0.030	0.76	0.060	1.52	0.750	19.05	0.990	25.15	1.090	27.69	583	868	308
19	0.030	0.76	0.060	1.52	0.835	21.21	1.073	27.25	1.157	29.39	748	1113	385
20	0.030	0.76	0.060	1.52	0.850	21.59	1.105	28.07	1.189	30.20	766	1140	404
25	0.030	0.76	0.080	2.03	0.983	24.99	1.239	31.47	1.326	33.68	852	1268	501
30	0.030	0.76	0.080	2.03	1.060	26.92	1.311	33.30	1.399	35.53	995	1481	597
35	0.030	0.76	0.080	2.03	1.152	29.26	1.372	34.85	1.488	37.80	1066	1587	693
40	0.030	0.76	0.080	2.03	1.179	29.95	1.431	36.35	1.519	38.86	1224	1822	790
50	0.030	0.76	0.080	2.03	1.282	32.56	1.535	38.99	1.642	41.71	1468	2184	982
60	0.030	0.76	0.080	2.03	1.435	36.45	1.710	43.43	1.850	46.99	1613	2400	1175
80	0.030	0.76	0.080	2.03	1.604	40.74	1.954	49.63	2.094	53.18	2132	3173	1561
90	0.030	0.76	0.080	2.03	1.689	42.90	2.039	51.79	2.183	55.44	2347	3494	1753

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

TECK90 14 AWG 600 V Fitting Sizes

Number of Conductors	Fittings			
	Appleton	T & B	CMP Products	Cooper Crouse - Hinds
2	TMC5076	10464/ST050-464	TCM050A	TECK050-2
3	TMC5076	10464/ST050-464	TCM050A	TECK050-2
4	TMC5099	10465-TB/ST050-465	TCM075A	TECK050-3
5	TMC5099	10465-TB/ST050-465	TCM075A	TECK050-3
6	TMC5099	10465-TB/ST050-465	TCM075A	TECK050-3
7	TMC5099	10465-TB/ST050-465	TCM075A	TECK050-3
8	TMC5099	10466/ST050-466	TCM075A	TECK050-4
9	TMC5099	10467/ST075-467	TCM075A	TECK075-5
10	TMC75121	10467/ST075-467	TCM075A	TECK075-5
11	TMC75121	10467/ST075-467	TCM100A	TECK075-5
12	TMC75121	10467/ST075-467	TCM100A	TECK075-5
15	TMC75121	10468/ST075-468	TCM100A	TECK075-6
19	TMC75121	10468/ST075-468	TCM100A	TECK075-6
20	TMC100138	10469/ST100-469	TCM100A	TECK075-6
25	TMC100138	10469/ST100-469	TCM125A	TECK100-7
30	TMC125163	10470/ST125-470	TCM125A	TECK125-8
35	TMC125163	10550/ST125-550	TCM150A	TECK125-8
40	TMC125163	10550/ST125-550	TCM150A	TECK125-8
50	TMC125188	10471/ST125-471	TCM150A	TECK125-10
60	TMC150200	10472/ST150-472	TCM200SA	TECK125-10
80	TMC150200	10551/ST200-551	TCM200A	TECK150-12
90	TMC200238	10474/ST200-474	TCM200A	TECK200-14

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