

## TECK 90 SPECIFICATIONS CSA TECK 90 – 600V CONTROL CABLE



- 600V MULTI CONDUCTOR
- No. 14 TO No.10 AWG COPPER
- FT4 - FLAME RETARDANCY RATING

- XLPE INSULATION
- ALUMINUM INTERLOCKED ARMOUR
- SUNLIGHT RESISTANT

- -40°C MIN, 90°C MAX
- RATED HL (HAZARDOUS LOCATIONS)
- AG14 - ACID GAS COMPLIANCE

### PRODUCT HIGHLIGHTS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet, dry or hazardous locations. Sunlight Resistant. Typical applications are for control, lighting and power circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

### CONSTRUCTION

#### Conductor

- Class B stranded copper

#### Insulation

- Cross-Linked Polyethylene (XLPE)
- Colour Code:
  - 2/C black, white
  - 3/C red, black, blue
  - 4/C red, black, blue, white
  - For 5/C cables or more, the insulation is black and numbered

#### Grounding Conductors

- Uninsulated Class B stranded grounding conductor

#### Assembly

- Multiple conductor cables assembled with suitable fillers and binder tape

#### Inner Jacket

- Polyvinyl Chloride (PVC)

#### Armour

- Aluminum Interlocked Armour (AIA)

#### Overall Jacket

- Black PVC (optional colours available)

#### Temperature

- -40°C to 90°C

#### Voltage

- 600V

### DESIGN

#### Qualification Standards

- CSA C22.2 No. 131 - Type TECK 90 Cable - File Listing: LL90458
- CSA C22.2 No. 174 - Cables in Hazardous Locations
- CSA C22.2 No. 0.3 - Wire and Cable Test Methods
- CSA File Listing: LL90458

#### Flame Test Ratings

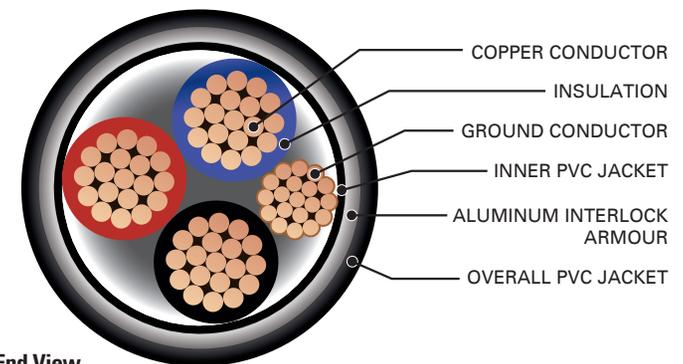
- FT4 - Flame Test (70,000 BTU/Hr - Vertical Tray Flame Test)
- IEEE 383 - Flame Test (70,000 BTU/Hr)

#### Product Ratings

- CSA C22.2 No. 0.3 - Wire and Cable Test Methods
- CSA HL - for Hazardous Locations rating
- CSA FT4 - for Flame Retardancy rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA AG14 - for Acid Gas Compliance

#### Operating Temperatures

- -40°C - CSA Cold Bend and Impact Temperature
- -40°C - Min. Installation Temperature
- 90°C - Max. Continuous Operating Temperature



End View



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### SPECIFICATIONS

Stock Number	Conductor		Grounding Conductor Size	Approximate Diameter			Approximate Weight	Ampacity (Amps) 30°C Ambient †	
				Inner Jacket	Armour	Outer Jacket		75°C	90°C
	Size AWG	Number of Conductors	AWG	inches	inches	inches	lb/1000 ft		
562239	14	2	14	0.361	0.565	0.651	187	20	25
561780	14	3	14	0.382	0.592	0.672	215	20	25
561781	14	4	14	0.415	0.625	0.705	240	20	25
561788	14	5	14	0.452	0.662	0.742	265	20*	25*
562248	14	6	14	0.490	0.700	0.781	293	20*	25*
561789	14	7	14	0.490	0.700	0.781	310	20*	25*
562254	14	8	14	0.561	0.771	0.851	360	20*	25*
562258	14	10	14	0.650	0.860	0.940	423	20*	25*
561790	14	12	14	0.671	0.881	0.961	465	20*	25*
562263	14	15	14	0.742	0.952	1.032	537	20*	25*
561791	14	19	14	0.780	1.100	1.180	675	20*	25*
562269	14	20	14	0.820	1.140	1.220	703	20*	25*
561778	14	25	14	0.949	1.269	1.350	874	20*	25*
562275	14	30	14	0.991	1.311	1.411	993	20*	25*
561792	12	2	12	0.396	0.606	0.686	218	25	30
561793	12	3	12	0.420	0.630	0.710	252	25	30
561794	12	4	12	0.457	0.667	0.747	290	25	30
589296	12	5	12	0.487	0.697	0.797	329	25*	30*
567116	12	6	12	0.561	0.772	0.856	378	25*	30*
584397	12	7	12	0.561	0.781	0.871	417	25*	30*
568599	12	8	12	0.607	0.817	0.901	444	25*	30*
563506	12	10	12	0.720	0.930	1.011	529	25*	30*
561796	12	12	12	0.744	0.954	1.034	589	25*	30*
563511	12	15	12	0.865	1.185	1.266	744	25*	30*
563515	12	20	12	0.953	1.273	1.354	950	25*	30*
589299	12	25	12	1.038	1.358	1.457	1135	25*	30*
587679	12	30	12	1.098	1.418	1.518	1286	25*	30*
562290	10	2	12	0.431	0.641	0.741	271	35	40
561797	10	3	12	0.470	0.680	0.761	314	35	40
561798	10	4	12	0.514	0.724	0.804	367	35	40
567109	10	6	12	0.632	0.842	0.942	501	35*	40*
584443	10	8	12	0.685	0.895	0.995	598	35*	40*
567096	10	10	12	0.803	1.123	1.207	753	35*	40*
589343	10	12	12	0.867	1.190	1.290	903	35*	40*
567102	10	15	12	0.964	1.284	1.368	1036	35*	40*
581912	10	20	12	1.067	1.387	1.487	1292	35*	40*
582000	10	30	12	1.254	1.574	1.694	1803	35*	40*

\* Use Table 5C in the 2015 Canadian Electrical Code to derate this ampacity as per Rules 4-004 & 12-2210

† Ampacities based on not more than 3 conductors (4 with neutral) in raceway or cable as per Table 2 of 2015 Canadian Electrical Code