

# TECK90 VERTICAL– COPPER CONDUCTOR

## XLPE/ALUMINUM ARMoured/1000 V, (-40°C) CSA



**Conductor:**  
14 AWG thru 10 AWG concentric lay class “B” stranded copper

8 AWG thru 500 kcmil Compact round concentric lay class “B” stranded copper

**Insulation:**  
Cross-linked Polyethylene (XLPE) Type RW90

**Colour Coding:**  
black, red, blue  
1 AWG and larger black with printed colour code

**Bonding Conductor (Ground):**  
14 AWG thru 10 AWG bare stranded class “B” copper conductor

8 AWG thru 500 kcmil Compact round concentric lay class “B” stranded copper

**Inner jacket:**  
Heavy duty extruded black Polyvinyl Chloride (PVC) ribbed jacket to prevent conductor elongation,

**Armour:**  
Aluminum interlocked armour

**Outer Jacket:**  
Low acid gas, flame-retardant, moisture and sunlight resistant Polyvinyl Chloride (PVC), black

**Print:**  
NORTHERN CABLES™ #/C SIZE (AWG OR aaray KCMIL) CMPCT TECK90 VERTICAL XLPE 1000V HL FT4 (-40C) SUN RES AG14 CSA, METRE MARK

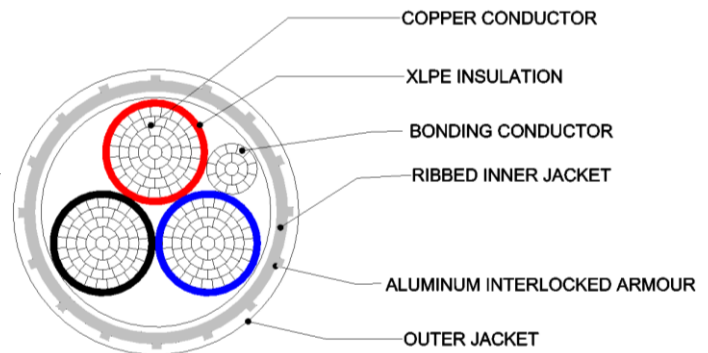
CSA Licence:  
LL109933

(3 conductor shown)

**Applications:**  
For use in vertical applications  
For concealed wiring in dry or wet locations  
For exposed wiring in dry or wet locations  
For exposed and wiring in dry, locations where subjected to corrosive action if suitable for corrosive conditions encountered  
For exposed wiring where subjected to the weather  
For use in ventilated, Non-ventilated and ladder-type cable trays in dry or wet locations  
For Direct earth burial (with protection as required by inspection authority)  
For service entrance above or below ground  
Suitable for variable frequency drive applications

**Features:**  
Rated at 90°C wet or dry  
Excellent crush resistance  
Provides long service life  
Cost effective alternative to installations in conduit  
Meets cold bend and impact tests at (-40°C)

**Compliances:**  
Industry compliances: CSA Standard C22.2 No. 131, No.38, No.174 and No.2256, RoHS  
Flame test compliances: CSA FT4  
Hazardous Location, SUN RES (outer jacket) SUN RES on inner jacket and insulated conductor available upon request, Direct Burial  
Acid Gas: CSA AG14



NO OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG/kcmil)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						NET WEIGHT		AMPACITY AT 90° C	
					INNER JACKET		ARMOUR		CABLE					
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	KG/KM	LBS/1000'		
*	3	14	14	0.045	1.14	0.545	13.8	0.695	17.65	0.789	20.03	525	355	25
	6	14	14	0.045	1.14	0.612	15.5	0.887	22.53	0.976	24.79	653	440	20
	10	14	14	0.045	1.14	0.778	19.8	1.053	26.75	1.142	29.01	878	590	18
	15	14	14	0.045	1.14	0.891	22.6	1.166	29.62	1.255	31.88	1070	720	18
	20	14	14	0.045	1.14	1.031	26.2	1.356	34.44	1.443	36.65	1480	1000	18
*	3	10	12	0.045	1.14	0.666	16.9	0.816	20.73	0.903	22.94	1295	735	40
	3	4	8	0.060	1.52	1.018	25.9	1.268	32.21	1.355	34.42	1454	1520	95
	3	500	3	0.090	2.29	2.206	56.0	2.581	65.56	2.726	69.24	9200	6182	430
DIMENSIONS AND WEIGHTS ARE NOMINAL; SUBJECT TO INDUSTRY TOLERANCES														
AMPACITY IS BASED ON CEC Part 1														

\* DENOTES A THICKER INNER JACKET AS OPPOSED TO RIBBED CONSTRUCTION