

Type Teck90-CU 1000V



Conductor:	Class B Stranded copper
Insulation:	Cross-linked Polyethylene (XLPE) Type RW90
Bonding wire:	Bare or stranded copper
Inner jacket:	Polyvinyl Chloride (PVC), Black
Armour:	Aluminum interlocked armor
Out. jacket:	Polyvinyl Chloride (PVC), Black
Voltage:	1000V
Temperature:	Rated -40°C ~ 90°C
Standard:	CUL1569 CSA Standard C22.2 No. 131, No.38 and No.2256, RoHS, FT4

Application:

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

One Conductor

AWG Size	Bonding AWG (BC)	Insulation thickness (mm)	Inner Jacket Thickness (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Diameter (mm)	Approximate Net Cable Weight (kg/km)
2/0	4	2.03	1.14	19.05	26.04	28.83	1405
3/0	3	2.03	1.14	20.49	27.18	29.97	1668
4/0	3	2.03	1.14	21.82	28.8	31.6	1893
250	2	2.29	1.52	24.26	31.67	34.42	2181
300	2	2.29	1.52	26.54	32.51	35.79	2552
350	2	2.29	1.52	28.53	34.37	37.21	2897
400	2	2.29	1.52	30.48	35.51	38.79	3220
500	1/0	2.29	1.52	31.42	37.8	37.59	3693
600	1/0	2.29	1.52	32.47	39.45	42.72	4405
750	1/0	2.29	1.52	34.16	42.75	46.02	5459
1000	2/0	2.29	1.52	40.94	48.53	51.94	6955

Two Conductor

AWG Size	Bonding AWG (BC)	Insulation thickness (mm)	Inner Jacket Thickness (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Diameter (mm)	Approximate Net Cable Weight (kg/km)
12	14	1.14	1.14	11.78	17.67	20.17	405
10	12	1.14	1.14	12.95	19.05	21.54	440
8	10	1.14	1.52	14.98	20.8	23.62	606
6	8	1.52	1.52	18.35	24	26.8	811
4	6	1.52	1.52	20.62	27.53	30.18	1104
3	6	1.52	2.03	24.45	31.37	33.39	1531
2	6	2.03	2.03	28.2	35.18	38.54	1863
1/0	6	2.03	2.03	30.09	36.93	39.57	2159
2/0	4	2.03	2.03	32.09	38.94	41.64	2493
3/0	4	2.03	2.03	35.07	41.62	44.73	3022
4/0	4	2.03	2.03	37.21	43.97	47.32	3549

Three Conductor

AWG Size	Bonding AWG (BC)	Insulation thickness (mm)	Inner Jacket Thickness (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Diameter (mm)	Approximate Net Cable Weight (kg/km)
14	14	1.14	1.14	11.38	17.4	19.56	367
12	14	1.14	1.14	12.77	18.67	20.85	441
10	12	1.14	1.52	14.63	20.5	22.63	567
8	10	1.52	1.52	15.93	21.72	23.93	730
6	8	1.52	1.52	19.44	26.29	28.58	959
4	6	2.03	2.03	22.96	29.87	32.13	1375
3	6	2.03	2.03	24.48	31.39	33.68	1526
2	6	2.03	2.03	26.05	33.02	35.26	1896
1	6	2.03	2.03	30.03	37.01	39.3	2291
1/0	6	2.03	2.03	32.08	39.04	41.4	2672
2/0	4	2.03	2.03	34.23	41.17	43.92	3222
3/0	4	2.03	2.03	36.82	43.82	46.61	3827
4/0	4	2.03	2.03	39.8	46.15	48.9	4733
250	4	2.29	2.79	44.1	51.26	54.92	5648
300	4	2.29	2.79	47.67	54.02	57.67	6472
350	3	2.29	2.79	50.2	55.27	60.21	7344
400	3	2.29	2.79	52.68	59.03	63.44	8265
500	3	2.29	2.79	56.92	63.27	67.69	9859
600	2	2.29	2.79	61.17	67.52	71.94	11528
750	2	2.29	2.79	66.4	72.75	77.17	13900

Four Conductor

AWG Size	Bonding AWG (BC)	Insulation thickness (mm)	Inner Jacket Thickness (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Overall Diameter (mm)	Approximate Net Cable Weight (kg/km)
14	14	1.14	1.14	12.52	18.61	21	420
12	14	1.14	1.52	14.46	20.33	22.94	530
10	12	1.14	1.52	16.04	22.3	24.51	649
8	10	1.14	1.52	17.62	23.39	25.92	867
6	8	1.52	2.03	22.73	29.71	32.51	1247
4	6	2.03	2.03	25.27	32.26	34.31	1669
3	6	2.03	2.03	27.55	34.54	36.6	2022
2	6	2.03	2.03	29.09	36.07	38.13	2351
1	6	2.03	2.03	33.11	39.5	42.24	2866
1/0	6	2.03	2.03	35.14	42.39	45.06	3415
2/0	6	2.03	2.03	37.81	44.63	47.37	4034
3/0	4	2.03	2.03	40.81	47.04	49.78	5053
4/0	4	2.03	2.79	45.55	51.64	54.38	6239
250	4	2.29	2.79	49.57	58.52	59.59	7230
300	4	2.29	2.79	52.76	61.65	65.57	8378
350	3	2.29	2.79	55.6	64.49	67.41	9344
400	3	2.29	2.79	58.26	67.16	71.96	10612
500	2	2.29	2.79	63.02	71.91	76.71	12332
750	2	2.29	2.79	78.49	84.84	88.9	18330

Multi-Conductor

No.	DATA	UNIT	CHARACTERISTICS
1	Type of the cable		TECK90 Cable
2	Rated Voltage	V	1000
3	Size	MCM	3x500MCM+1x3AWG
4	Standard Applied		CSA C22.2
5	Power Cores		3
	Cross sectional area	MCM	500
	Material		Stranded Copper
	Diameter of Conductor	mm	19.8
6	Insulation		
	Material		Cross-linked Polyethylene (XLPE) Type RW90
	Nominal thickness		2.28
7	Ground Core		1
	Cross sectional area		3
	Material		Stranded Copper
	Diameter of Conductor		6.6
8	Inner Jacket		
	Material		PVC
	Nominal thickness	mm	2.79
9	Armor		Aluminum Interlocked Armour(AIA)
	Material		Aluminum
	Nominal thickness	mm	1.0
10	Outer Jacket		
	Material		PVC
	Nominal thickness	mm	1.7
11	OD of the finished cable (Approx.)	mm	71.0
12	Weight of the finished cable (Approx.)	kg/km	9,975
13	Package		Wooden/Steel Drum