



Detail Description or Construction

Conductor

Compressed or Compacted copper conductor class B

Insulation

Cross-linked Polyethylene (XLPE) 90°C

Jacket

Extruded black sunlight resistant, self-extinguishing, oils resistant PVC jacket with excellent mechanical properties

Packaging

Non-returnable wooden drums

Options

- CT USE applications
- Lineal low density Polyethylene jacket (LLDPE) jacket

Application

Primary power and distribution circuits in industrial, commercial and power circuit generating plants.

Single conductors cables, 1/0 AWG and larger, can be marked for CT Use to be installed in ladder cable tray, according NEC Article 318.

Standards / Testing Specifications

- ICEA S-95-658, ICEA S - 66 - 524.

Marking

PHELPS DODGE TTU SIZE XLPE - PVC 90°C 600 V.

Installation

TTU 90 cables may be installed in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency and 250°C for short circuit conditions. Cables may be installed indoor and outdoor, exposed to sunlight, in raceway, conduit, duct or aerially supported by a messenger and directly buried according NEC 250-51.



TTU 90

600V Single Copper Conductor, XLPE Insulation and Outer PVC Jacket

Conductor Size	Nominal Area	Minimum Number of Wires	Insulation Thickness	Jacket Thickness	Total O. D	Minimum Bending Radii	Total Weight	Ampacity Buried Duct @ 20°C	Direct Buried @ 20°C	Free Air @ 40°C	Standard Package
AWG / MCM	mm ²		mm	mm	mm	mm	kg / km	A	A	A	m
14	2.08	7	0.76	0.38	4.4	18	34	26	40	-	100
12	3.31	7	0.76	0.38	4.9	20	47	35	58	-	100
10	5.26	7	0.76	0.38	5.6	23	69	47	75	-	100
8	8.37	7	1.14	0.38	6.9	30	107	64	92	66	100
6	13.3	7	1.14	0.76	8.5	177	173	85	118	89	100
4	21.2	7	1.14	0.76	9.8	261	255	111	153	117	1000
2	33.6	7	1.14	0.76	11.2	392	381	146	197	158	1000
1	42.4	19	1.40	1.14	14.0	513	518	168	223	185	1000
1/0	53.5	19	1.40	1.14	15.0	629	633	193	255	214	1000
2/0	67.4	19	1.40	1.14	16.2	774	777	220	289	247	1000
3/0	85.0	19	1.40	1.14	17.5	956	955	252	329	287	1000
4/0	107	19	1.40	1.14	19.0	1,184	1,177	290	373	335	1000
250	127	37	1.65	1.65	21.0	1,395	1,405	319	408	374	500
350	177	37	1.65	1.65	23.6	1,961	1,897	387	490	464	500
500	253	37	1.65	1.65	27.0	2,735	2,665	471	592	580	500
750	380	61	2.03	1.65	33.5	4,041	4,012	585	724	747	500
1000	507	61	2.03	1.65	37.4	5,300	5,253	670	825	879	500

Note: Data shown is approximated and subject to normal manufacturing tolerances.
Color: Black