

Table B.310.9 {Detail 7 - One Circuit, 3-1/c Triplexed Directly Buried}

0-2000 Volt Cable, Ambient Earth Temperature = 20 Deg C, Earth Thermal resistivity (RHO) = 90,
Load Factor = 100%, Conductor Temperature = 75C (167F).

1 Set of 3 Triplexed 1/c Cables (Fig. B-310-2, Detail 7)																		
Size (AWG or kcmil)	60C	75C		60C	75C		60C	75C		60C	75C		60C	75C				
	(140F)	(167F)		(140F)	(167F)		(140F)	(167F)		(140F)	(167F)		(140F)	(167F)				
	TYPES																	
	UF	USE		UF	USE		UF	USE		UF	USE		UF	USE				
COPPER																		
NEC		AmpCalc		%Deviation		NEC		AmpCalc		%Deviation		NEC		AmpCalc		%Deviation		
8	72	84	72.9	83.4	1.3%	-0.7%	55	65	56.9	65.0	3.5%	0.0%	55	65	56.9	65.0	3.5%	0.0%
6	91	107	93.8	107.3	3.1%	0.3%	72	84	73.1	83.6	1.5%	-0.5%	72	84	73.1	83.6	1.5%	-0.5%
4	119	139	121.3	138.7	1.9%	-0.2%	92	108	94.6	108.1	2.8%	0.1%	92	108	94.6	108.1	2.8%	0.1%
2	153	179	156.2	178.7	2.1%	-0.2%	119	139	121.8	139.2	2.4%	0.1%	119	139	121.8	139.2	2.4%	0.1%
1	173	203	177.4	202.9	2.5%	0.0%	135	158	138.3	158.1	2.4%	0.1%	135	158	138.3	158.1	2.4%	0.1%
1/0	197	231	201.8	230.9	2.4%	0.0%	154	180	157.5	180.0	2.3%	0.0%	154	180	157.5	180.0	2.3%	0.0%
2/0	223	262	229.5	262.6	2.9%	0.2%	175	205	179.1	204.8	2.3%	-0.1%	175	205	179.1	204.8	2.3%	-0.1%
3/0	254	298	260.9	298.6	2.7%	0.2%	199	233	203.8	233.0	2.4%	0.0%	199	233	203.8	233.0	2.4%	0.0%
4/0	289	339	295.7	338.4	2.3%	-0.2%	226	265	231.2	264.3	2.3%	-0.3%	226	265	231.2	264.3	2.3%	-0.3%
250	-	370	-	370.3	-	0.1%	-	289	-	289.5	-	0.2%	-	289	-	289.5	-	0.2%
350	-	445	-	444.7	-	-0.1%	-	349	-	348.9	-	0.0%	-	349	-	348.9	-	0.0%
500	-	536	-	536.5	-	0.1%	-	424	-	424.2	-	0.0%	-	424	-	424.2	-	0.0%
750	-	654	-	654.1	-	0.0%	-	525	-	525.3	-	0.1%	-	525	-	525.3	-	0.1%
1000	-	744	-	743.3	-	-0.1%	-	608	-	608.1	-	0.0%	-	608	-	608.1	-	0.0%
Average Deviation =		2.4%		0.0%		Average Deviation =		2.4%		0.0%		Average Deviation =		2.4%		0.0%		

AmpCalc References:

AmpCalc Library = IEERUB_2, AmpCalc Volume = IEERUB1, 1 kV non-shielded.

NEC ampacities obtained from "NFPA 70, National Electric Code, 2002 Edition", © 2002, National Fire Protection Association, Inc.
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Table B.310.9 (Detail 8 - Two Circuits, Each with 3-1/c Triplexed Directly Buried)

0-2000 Volt Cable, Ambient Earth Temperature = 20 Deg C, Earth Thermal resistivity (RHO) = 90,
Load Factor = 100%, Conductor Temperature = 75C (167F).

Size (AWG or kcmil)		2 Sets of 3 Triplexed 1/c Cables (Fig. B-310-2, Detail 8)															
		60C (140F)		75C (167F)		60C (140F)		75C (167F)		60C (140F)		75C (167F)		60C (140F)		75C (167F)	
		TYPES															
		UF	USE	UF	USE	UF	USE	UF	USE	UF	USE	UF	USE	UF	USE	UF	USE
		COPPER															
		NEC		AmpCalc		%Deviation				NEC		AmpCalc		%Deviation			
8		66	77	67.7	77.5	2.6%	0.6%			51	60	52.8	60.4	3.5%	0.7%		
6		84	99	86.8	99.3	3.3%	0.3%			66	77	67.7	77.4	2.6%	0.5%		
4		109	128	111.9	128.0	2.7%	0.0%			85	100	87.2	99.7	2.6%	-0.3%		
2		140	164	143.6	164.3	2.6%	0.2%			109	128	112.0	128.1	2.8%	0.1%		
1		159	186	162.8	186.3	2.4%	0.2%			124	145	127.0	145.2	2.4%	0.1%		
1/0		181	212	184.9	211.5	2.2%	-0.2%			141	165	144.2	164.9	2.3%	-0.1%		
2/0		205	240	209.8	240.0	2.3%	0.0%			159	187	163.7	187.2	3.0%	0.1%		
3/0		232	272	238.0	272.3	2.6%	0.1%			181	212	185.9	212.5	2.7%	0.2%		
4/0		263	308	269.2	308.1	2.4%	0.0%			206	241	210.4	240.6	2.1%	-0.2%		
250		-	336	-	336.6	-	0.2%			250	263	-	263.2	-	0.1%		
350		-	403	-	402.7	-	-0.1%			350	316	-	316.0	-	0.0%		
500		-	483	-	483.9	-	0.2%			500	382	-	382.7	-	0.2%		
750		-	587	-	587.5	-	0.1%			750	471	-	471.8	-	0.2%		
1000		-	665	-	665.2	-	0.0%			1000	544	-	544.2	-	0.0%		
		Average Deviation =		2.6%		0.1%				Average Deviation =		2.7%		0.1%			

AmpCalc References:

AmpCalc Library = IEERUB_2, AmpCalc Volume = IEERUB1, 1 kV non-shielded.

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