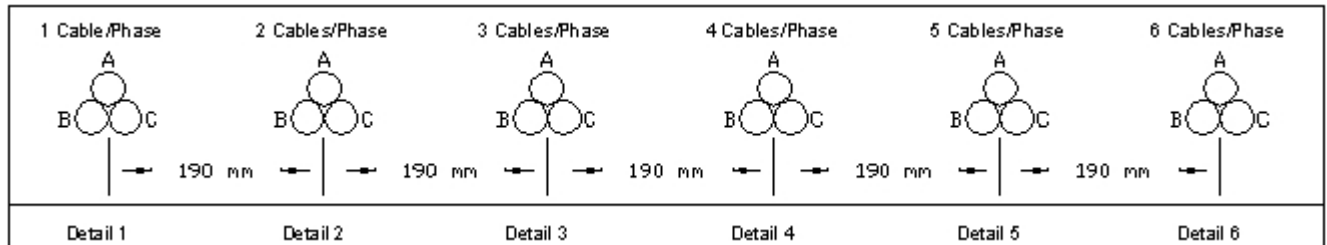


Ampacity Rating and Recommended Configurations

For installation of three-conductor COPPER or three-grouped single conductor COPPER cables IN DIRECT BURIAL

Types RWU90, RA90, TECK 90, ACWU90, 0 to 5 kV

ATTENTION - Only these configurations are recommended by Nexans to obtain satisfactory load sharing and ampacity. See C.E.C. Code Rules 4-004, 8-104, 12-012, Appendix B, Appendix D12A and D12B.



Notes:

The ampacities in the tables on this page are based on the following conditions:

- 100% load factor
- Ambient soil temperature of 20°C
- Soil resistivity of 90°C-cm/W
- Conductor temperature of 90°C
- Spacing between conductor centre of 3/C cables or groups of 1/C cables is 190 mm
- Burial depth of 915 mm to centre of 3/C cables or groups of 1/C cables
- Open circuit sheath/shield operation
- Neutral conductor(s), if required should be included with each group of phase conductors shown (ie: use 4/C cable or 4x1/C cables).

Size AWG or kcmil	Detail 1	Detail 2	Detail 3	Detail 4	Detail 5	Detail 6
1/0 (19)	243	209	186	174	164	157
2/0 (19)	274	235	209	195	184	176
3/0 (19)	311	266	236	220	207	198
4/0 (19)	360	306	271	253	237	227
250 (37)	383	326	288	268	252	242
350 (37)	470	397	350	326	306	293
500 (37)	548	460	404	375	352	337
600 (61)	600	502	440	408	383	366
750 (61)	667	556	486	450	421	403
1000 (61)	758	628	548	508	475	454
1250 (91)	831	682	593	547	511	488
1500 (91)	889	727	630	581	542	517
1750 (127)	927	755	653	602	561	535
2000 (127)	962	781	674	621	578	552

Note:

1. This table gives allowable current for 90 °C rated multiple copper conductor cables, or single copper conductors in contact, or multiplexed single copper conductors, directly buried in earth, subject to Subrules 4-004(14) and (15), where:

(a) for any load, the cable terminates at equipment of any type other than a fusible switch or circuit breaker, or

(b) the load is non-continuous and either end of the cable terminates at a fusible switch or circuit breaker.

2. The ampacities provided in this Table are the lesser of:

(a) the value obtained in accordance with Rule 4-004(1)(d); or

(b) the value obtained in accordance with Rule 8-104(7).

Size AWG or kcmil	Detail 1		Detail 2		Detail 3		Detail 4		Detail 5	Detail 6
	100%	80%	100%	80%	100%	80%	100%	80%		
1/0 (19)	208	172	208	172	186	172	174	172	164	157
2/0 (19)	242	200	235	200	209	200	195		184	176
3/0 (19)	281	231	266	231	236	231	220		207	198
4/0 (19)	327	270	306	270	271	270	253		237	227
250 (37)	361	298	326	298	288		268		252	242
350 (37)	451	371	397	371	350		326		306	293
500 (37)	561	462	460		404		375		352	337
600 (61)	629	518	502		440		408		383	366
750 (61)	667	592	556		486		450		421	403
1000 (61)	758	700	628		548		508		475	454
1250 (91)	831	791	682		593		547		511	488
1500 (91)	889	882	727		630		581		542	517
1750 (127)	927		755		653		602		561	535
2000 (127)	962		781		674		621		578	552

Notes:

1. Allowable current for 90°C rated multiple copper conductor cables, or single copper conductors in contact, or multiplexed single copper conductors, directly buried in earth, subject to Subrules 4-004(14) and (15), where:
 - (a) the load is continuous, and
 - (b) either end terminates at a fusible switch or circuit breaker.
2. The columns with the heading "80%" denote that the equipment identified in 1(b) is not marked as certified to carry its ampere rating continuously.
3. The columns with the heading "100%" denote that the equipment identified in 1(b) is marked as certified to carry its ampere rating continuously.
4. The ampacities provided in this Table are the lesser of:
 - (a) the value obtained in accordance with Rule 4-004(1)(d); or
 - (b) the value obtained in accordance with Rule 8-104(7).