

# CORFLEX® MC

## Armored Power and Control Cable

Contact  
Industrial Cables  
Phone: 845-469-2141  
USA.IndustrialCable@nexans.com

### Part Number: PC

Armored Power and Control Cable UL Type MC HL, 600 V, 90°C rated - LEAD FREE

## DESCRIPTION

Multi-conductor 14 AWG to 10 AWG: Multiple conductors and composites, with ground wire(s), continuous corrugated aluminum sheath, PVC jacket.

### Construction

**Conductor:** Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

**Insulation:** Cross linked polyethylene type XHHW-2 per UL 44.

**Assembly:** Conductors are cabled in concentric layers with or without grounding wire (s), interstices are filled with suitable non-hygroscopic fillers, as required. A binder tape of synthetic material assembles the core in an essentially round configuration.

**Armor:** Continuous corrugated aluminum sheath with no more than 0.2% trace copper providing complete protection against liquid & gas ingress. It also provides excellent mechanical protection, additional electrostatic shielding, and serves as an easy means of grounding equipment.

**Jacket:** Overall black polyvinyl chloride jacket per UL 1569, 90°C temperature rating; low gas emission; limited flame spread and excellent corrosion resistance.

**Conductor Identification-** see link below

### Bending Radius

**Fixed position:** 7 x cable overall diameter

**During pulling:** 12 x cable overall diameter

### Specifications

- Meets UL 44, XHHW-2 600 V conductors
- Meets UL 1569 requirements for Type MC, Metal Clad cables
- Meets UL 2225 for Hazardous Locations
- Designated Type MC as per NEC Article 330
- Meets CSA C22.2 No. 123-08 for Aluminum Sheathed Cables
- Meets CSA C22.2 No. 174-M1984 for Hazardous Locations



## STANDARDS

**National**  
UL 1569;UL 2225;UL 44

## Product features

- UL approved cables Type MC, 600 V; File No. E47409
- UL approved insulated conductors
- Cables pass UL 1685 and IEEE 383 vertical tray fire tests at 70,000 BTU/hr, ICEA T-29-520 fire test at 210,000 BTU/hr, IEC 332-3 category A fire test, IEEE 1202 and CSA FT4
- Cables are American Bureau of Shipping (ABS) listed as CWC MC Type MC
- Cables exhibit a low temperature rating of -40°C impact and -40°C bend with suitable precautions
- Temperature rating of 90°C dry and wet
- 130°C emergency rating & 250°C short circuit rating
- Continuous, impervious metallic sheath corrugated for flexibility, prevents ingress of moisture, gases and liquids
- Aluminum sheath cross-section exceeds requirements of the NEC Section 250.122 for grounding conductor
- Sheath provides good electronic shielding so that Corflex® can be used in certain instrumentation applications when adequately grounded
- Excellent mechanical & physical properties
- Sunlight resistant jacket
- Suitable for direct burial and use in cable tray and embedment in concrete
- LEAD FREE

## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper
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### Electrical characteristics

Maximum operating voltage	600 V
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### Usage characteristics

Maximum operating temperature	90 °C
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**MULTICONDUCTORS, WITH BARE GROUND(S) ELECTRICAL DATA**

Part Number	# of Cond.	Cond. Size AWG/kcmil	DC Resistance		AC Resistance 90°C, 60 Hz Ω/kft	Inductive Reactance (Ω/kft@ 60Hz)	Voltage Drop V/(A.Kft)	Ampacities Note 1	
			20°C Ω/kft	25°C Ω/kft				75°C	90°C
*670155	2	14(7w)	2.5553	2.6064	3.2583	0.0376	2.9489	15	15
*670142	3	14(7w)	2.5553	2.6064	3.2583	0.0376	2.9489	15	15
*317677	4	14(7w)	2.5553	2.6064	3.2583	0.0376	2.9489	15	15
*318345	5	14(7w)	2.5553	2.6064	3.2583	0.0497	2.9542	15	15
*318352	7	14(7w)	2.5553	2.6064	3.2583	0.0545	2.9566	14	15
*318360	9	14(7w)	2.5553	2.6064	3.2583	0.0596	2.9585	14	15
*318378	12	14(7w)	2.5553	2.6064	3.2583	0.0641	2.9604	10	13
318386	15	14(7w)	2.5553	2.6064	3.2583	0.0666	2.9615	10	13
*318394	19	14(7w)	2.5553	2.6064	3.2583	0.0694	2.9627	10	13
*318402	25	14(7w)	2.5553	2.6064	3.2583	0.0743	2.9649	9	11
*318410	37	14(7w)	2.5553	2.6064	3.2583	0.0787	2.9668	8	10
*670156	2	12(7w)	1.6082	1.6404	2.0506	0.0353	1.8610	20	20
*670144	3	12(7w)	1.6082	1.6404	2.0506	0.0353	1.8610	20	20
*317693	4	12(7w)	1.6082	1.6404	2.0506	0.0353	1.8610	20	20
*318436	5	12(7w)	1.6082	1.6404	2.0506	0.0475	1.8663	20	20
*318444	7	12(7w)	1.6082	1.6404	2.0506	0.0526	1.8685	18	20
*318451	9	12(7w)	1.6082	1.6404	2.0506	0.0574	1.8706	18	20
*318469	12	12(7w)	1.6082	1.6404	2.0506	0.0620	1.8726	13	15
318447	15	12(7w)	1.6082	1.6404	2.0506	0.0644	1.8736	13	15
318485	19	12(7w)	1.6082	1.6404	2.0506	0.0672	1.8749	13	15
318493	25	12(7w)	1.6082	1.6404	2.0506	0.0719	1.8769	11	14
318501	37	12(7w)	1.6082	1.6404	2.0506	0.0764	1.8789	10	12
670157	2	10(7w)	1.0118	1.2902	1.2902	0.0332	1.1756	30	30
*670146	3	10(7w)	1.0118	1.2902	1.2902	0.0332	1.1756	30	30
*317719	4	10(7w)	1.0118	1.2902	1.2902	0.0332	1.1756	28	30
318527	5	10(7w)	1.0118	1.2902	1.2902	0.0454	1.1809	28	30
318535	7	10(7w)	1.0118	1.2902	1.2902	0.0507	1.1832	25	28
318543	9	10(7w)	1.0118	1.2902	1.2902	0.0579	1.1864	25	28
*318550	12	10(7w)	1.0118	1.2902	1.2902	0.0601	1.1874	18	20
665148	37	10(7w)	1.0118	1.2902	1.2902	0.0744	1.1936	14	16

\* Stock Item

Notes:

1) Ampacities are in accordance with NEC Table 310.15(B)(16) for conductors in raceway or direct buried at 30°C ambient temperature and 90°C conductor temperature. The overcurrent protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG, and 30 amperes for 10 AWG copper conductors after any correction factors for ambient temperature and number of conductors have been applied (NEC Article 240.4(D)). For correction factors for different ambient temperatures and ampacities at different conductor temperatures, see NEC Table 310.15(B)(16). Ampacities for cables having more than three conductors have been derated per NEC Article 310.15(B)(3)(a).

2) Three conductor cables with 3 grounds are also suitable for VFD applications.

**MULTICONDUCTORS, WITH BARE GOUND(S) PHYSICAL DATA**

Part Number	# of Cond.	Cond. Size AWG/kcmil	Insulation Thickness mils	Ground Wire Size AWG	Nominal Diameter over Core(in)	Nominal Diameter over Sheath(in)	Jacket Thickness mils	Nominal Diameter over Jacket(in)	Approx. Net Cable Weight (lb/kft)
*670155	2	14(7w)	30	14(7w)	0.273	0.469	50	0.581	155
*670142	3	14(7w)	30	3x18(7w)	0.390	0.555	50	0.660	200
*317677	4	14(7w)	30	14(7w)	0.336	0.503	50	0.606	191
*318345	5	14(7w)	30	14(7w)	0.366	0.532	50	0.635	212
*318352	7	14(7w)	30	14(7w)	0.417	0.601	50	0.704	263
*318360	9	14(7w)	30	14(7w)	0.486	0.645	50	0.748	307
*318378	12	14(7w)	30	14(7w)	0.560	0.783	50	0.887	388
318386	15	14(7w)	30	14(7w)	0.610	0.811	50	0.915	443
*318394	19	14(7w)	30	14(7w)	0.669	0.921	50	1.028	572
*318402	25	14(7w)	30	14(7w)	0.797	1.005	50	1.111	691
*318410	37	14(7w)	30	14(7w)	0.933	1.218	50	1.323	986
*670156	2	12(7w)	30	12(7w)	0.345	0.512	50	0.614	185
*670144	3	12(7w)	30	3x16(7w)	0.340	0.555	50	0.660	226
*317693	4	12(7w)	30	12(7w)	0.385	0.550	50	0.653	239
*318436	5	12(7w)	30	12(7w)	0.414	0.599	50	0.702	280
*318444	7	12(7w)	30	12(7w)	0.478	0.640	50	0.744	338
*318451	9	12(7w)	30	12(7w)	0.551	0.777	50	0.881	437
*318469	12	12(7w)	30	12(7w)	0.639	0.828	50	0.932	502
318447	15	12(7w)	30	12(7w)	0.691	0.936	50	1.039	635
318485	19	12(7w)	30	12(7w)	0.760	0.981	50	1.085	743
318493	25	12(7w)	30	12(7w)	0.897	1.190	50	1.295	987
318501	37	12(7w)	30	12(7w)	1.059	1.374	50	1.478	1365
670157	2	10(7w)	30	10(7w)	0.360	0.527	50	0.632	231
*670146	3	10(7w)	30	3x14(7w)	0.450	0.620	50	0.725	312
*317719	4	10(7w)	30	10(7w)	0.448	0.621	50	0.724	319
318527	5	10(7w)	30	10(7w)	0.479	0.641	50	0.743	364
318535	7	10(7w)	30	10(7w)	0.556	0.780	50	0.884	484
318543	9	10(7w)	30	10(7w)	0.693	0.936	50	1.040	630
*318550	12	10(7w)	30	10(7w)	0.744	0.971	50	1.074	732
665148	37	10(7w)	30	10(7w)	1.227	1.591	60	1.724	1984
*Stock Item									

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.



**COMPOSITE ELECTRICAL DATA**

Part Number	# of Cond.	Cond. Size AWG/kcmil	DC Resistance		AC Resistance 90°C, 60 Hz Ω/kft	Inductive Reactance (Ω/kft@ 60Hz)	Voltage Drop V/(A.Kft)	Ampacities Note 1	
			20°C Ω/kft	25°C Ω/kft				75°C	90°C
	(4)	(3)							
199760	12(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
*290783	12(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
290791	12(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
290809	12(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
654277	12(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
<b>Composite - 3 POWER Conductors with 3X12 AWG CONTROL Conductors and 1 Bare Ground</b>									
	(3)	(3)							
665024	12(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
665025	12(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
665027	12(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
665028	12(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
665035	12(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
<b>Composite - 4 POWER Conductors with 4X12 AWG CONTROL Conductors and 1 Bare Ground</b>									
	(4)	(4)							
665019	12(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
665020	12(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
665021	12(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
665022	12(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
665023	12(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
<b>Composite - 3 POWER Conductors with 4 X14 AWG CONTROL Conductors and 1 Bare Ground</b>									
	(4)	(3)							
665036	14(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
665037	14(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
665038	14(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
665039	14(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
665040	14(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
<b>Composite - 3 POWER Conductors with 3 X14 AWG CONTROL Conductors and 1 Bare Ground</b>									
	(3)	(3)							
665041	14(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
665042	14(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
665044	14(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
665045	14(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
665046	14(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
<b>Composite - 4 POWER Conductors with 4 X14 AWG CONTROL Conductors and 1 Bare Ground</b>									
	(4)	(4)							
665047	14(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
665048	14(7w)	8(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
665049	14(7w)	6(7w)	0.4002	0.4082	0.5104	0.0328	0.4737	65	75
665050	14(7w)	4(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
665051	14(7w)	2(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130

\* Stock item

### COMPOSITE PHYSICAL DATA

Part Number	CONTROL Size AWG	Insulation Thickness mils	POWER Size AWG	Insulation Thickness mils	Ground Wire Size AWG	Nominal Diameter over Core(in)	Nominal Diameter over Sheath(in)	Jacket Thickness mils	Nominal Diameter over Jacket(in)	Approx. Net Cable Weight (lbs/kft)
<b>Composite - 3 POWER Conductors with 4X12 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(4)		(3)							
199760	12(7w)	30	10(7w)	30	10(7w)	0.540	0.772	50	0.876	425
*290783	12(7w)	30	8(7w)	45	10(7w)	0.664	0.917	50	1.026	565
290791	12(7w)	30	6(7w)	45	8(7w)	0.750	0.975	50	1.077	685
290809	12(7w)	30	4(7w)	45	8(7w)	0.845	1.149	50	1.254	926
654277	12(7w)	30	2(7w)	45	6(7w)	0.870	1.168	50	1.273	1198
<b>Composite - 3 POWER Conductors with 3X12 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(3)		(3)							
665024	12(7w)	30	10(7w)	30	10(7w)	0.494	0.750	50	0.854	396
665025	12(7w)	30	8(7w)	45	10(7w)	0.590	0.800	50	0.904	473
665027	12(7w)	30	6(7w)	45	8(7w)	0.695	0.937	50	1.041	665
665028	12(7w)	30	4(7w)	45	8(7w)	0.735	0.964	50	1.068	807
665035	12(7w)	30	2(7w)	45	6(7w)	0.860	1.160	50	1.265	1170
<b>Composite - 4 POWER Conductors with 4X12 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(4)		(4)							
665019	12(7w)	30	10(7w)	30	10(7w)	0.560	0.782	50	0.886	463
665020	12(7w)	30	8(7w)	45	10(7w)	0.659	0.914	50	1.024	630
665021	12(7w)	30	6(7w)	45	8(7w)	0.725	0.958	50	1.062	778
665022	12(7w)	30	4(7w)	45	8(7w)	0.807	1.012	50	1.117	993
665023	12(7w)	30	2(7w)	45	6(7w)	0.927	1.214	50	1.319	1436
<b>Composite - 3 POWER Conductors with 4 X14 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(4)		(3)							
665036	14(7w)	30	10(7w)	30	10(7w)	0.510	0.754	50	0.860	387
665037	14(7w)	30	8(7w)	45	10(7w)	0.610	0.811	50	0.915	478
665038	14(7w)	30	6(7w)	45	8(7w)	0.700	0.941	50	1.045	640
665039	14(7w)	30	4(7w)	45	8(7w)	0.730	0.961	50	1.064	799
665040	14(7w)	30	2(7w)	45	6(7w)	0.820	1.128	50	1.240	1165
<b>Composite - 3 POWER Conductors with 3 X14 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(3)		(3)							
665041	14(7w)	30	10(7w)	30	10(7w)	0.470	0.635	50	0.738	340
665042	14(7w)	30	8(7w)	45	10(7w)	0.591	0.800	50	0.904	457
665044	14(7w)	30	6(7w)	45	8(7w)	0.670	0.921	50	1.028	641
665045	14(7w)	30	4(7w)	45	8(7w)	0.770	0.987	50	1.091	788
665046	14(7w)	30	2(7w)	45	6(7w)	0.885	1.180	50	1.285	1146
<b>Composite - 4 POWER Conductors with 4 X14 AWG CONTROL Conductors and 1 Bare Ground</b>										
	(4)		(4)							
665047	14(7w)	30	10(7w)	30	10(7w)	0.550	0.776	50	0.880	428
665048	14(7w)	30	8(7w)	45	10(7w)	0.645	0.831	50	0.935	535
665049	14(7w)	30	6(7w)	45	8(7w)	0.695	0.938	50	1.042	749
665050	14(7w)	30	4(7w)	45	8(7w)	0.787	0.999	50	1.103	953
665051	14(7w)	30	2(7w)	45	6(7w)	0.927	1.214	50	1.319	1401
*Stock Item										

**3 CONDUCTORS WITH 3 BARE GROUNDS\* ELECTRICAL DATA**

Part Number	Cond. Size AWG/kcmil	Ground Wire Size AWG	DC Resistance		AC Resistance 90°C, 60 Hz Ω/kft	Inductive Reactance (Ω/kft @60Hz)	Voltage Drop V/(A.Kft)	Ampacities Note 1	
			20°C Ω/kft	25°C Ω/kft				75°C	90°C
670142	14(7w)	3x18(7w)	2.5553	2.6064	3.2583	0.0376	2.9489	15	15
670144	12(7w)	3x16(7w)	1.6082	1.6404	2.0506	0.0353	1.8610	20	20
670146	10(7w)	3x14(7w)	1.0118	1.0320	1.2902	0.0332	1.1756	30	30
*670148	8(7w)	3x14(7w)	0.6361	0.6488	0.8111	0.0348	0.7452	50	55
*670149	6(7w)	3x12(7w)	0.4002	0.4082	0.5104	0.0329	0.4737	65	75
*670150	4(7w)	3x12(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
*670151	2(7w)	3x10(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
670152	1(19w)	3x10(7w)	0.1255	0.1280	0.1603	0.0288	0.1568	130	145
*670153	1/0(19w)	3x10(7w)	0.0999	0.1019	0.1278	0.0281	0.1272	150	170
*670118	2/0(19w)	3x10(7w)	0.0797	0.0813	0.1021	0.0280	0.1041	175	195
*670119	3/0(19w)	3x8(7w)	0.0629	0.0642	0.0808	0.0275	0.0847	200	225
*670120	4/0(19w)	3x8(7w)	0.0497	0.0507	0.0641	0.0271	0.0695	230	260
*670121	250(37w)	3x8(7w)	0.0424	0.0432	0.0584	0.0263	0.0608	255	290
*670122	350(37w)	3x6(7w)	0.0301	0.0307	0.0395	0.0263	0.0470	310	350
*670123	500(37w)	3x6(7w)	0.0212	0.0216	0.0290	0.0250	0.0367	380	430

\*Stock Item

Notes:

1) Ampacities are based on NEC Table 310.15(B)(16) for not more than three current-carrying conductors in raceway, cable, or earth (direct buried), based on an ambient temperature of 30°C (86°F). Refer to NEC Table 310.15(B)(2) for the ampacity correction factors where the ambient temperature is other than 30°C (86°F).  
2) Three conductor cables with 3 ground wires are also excellent for use with variable frequency drives. In addition to UL, these 3-conductor constructions are also certified to CSA C22.2 No. 123 and CSA C22.2 No. 174.

**3 CONDUCTORS WITH 3 BARE GROUNDS\* PHYSICAL DATA**

Part Number	Cond. Size AWG/kcmil	Insulation Thickness mils	Ground Wire Size AWG	Nominal Diameter over Core(in)	Nominal Diameter over Sheath(in)	Jacket Thickness mils	Nominal Diameter over Jacket(in)	Approx. Net Cable Weight (lb/kft)
670142	14(7w)	30	3x18(7w)	0.390	0.555	50	0.660	200
670144	12(7w)	30	3x16(7w)	0.340	0.555	50	0.660	226
670146	10(7w)	30	3x14(7w)	0.450	0.620	50	0.725	312
*670148	8(7w)	45	3x14(7w)	0.520	0.750	50	0.838	413
*670149	6(7w)	45	3x12(7w)	0.600	0.802	50	0.905	542
*670150	4(7w)	45	3x12(7w)	0.700	0.937	50	1.039	735
*670151	2(7w)	45	3x10(7w)	0.830	1.127	50	1.232	1097
670152	1(19w)	55	3x10(7w)	0.950	1.230	50	1.320	1330
*670153	1/0(19w)	55	3x10(7w)	1.040	1.350	50	1.473	1592
*670118	2/0(19w)	55	3x10(7w)	1.126	1.422	50	1.510	1882
*670119	3/0(19w)	55	3x8(7w)	1.250	1.606	60	1.739	2400
*670120	4/0(19w)	55	3x8(7w)	1.360	1.734	60	1.867	2910
*670121	250(37w)	65	3x8(7w)	1.477	1.925	60	2.058	3316
*670122	350(37w)	65	3x6(7w)	1.685	2.028	60	2.162	4375
*670123	500(37w)	65	3x6(7w)	1.954	2.340	75	2.504	6026
*Stock Item								



**4 CONDUCTORS WITH 1 BARE GROUND ELECTRICAL DATA**

Part Number	Cond. Size AWG/kcmil	Ground Wire Size AWG	DC Resistance		AC Resistance 90°C, 60 Hz Ω/kft	Inductive Reactance (Ω/kft @60Hz)	Voltage Drop V/(A.Kft)	Ampacities Note 1	
			20°C Ω/kft	25°C Ω/kft				75°C	90°C
317677	14(7w)	14(7w)	2.5553	2.6064	3.2583	0.0375	2.9307	15	15
317693	12(7w)	12(7w)	1.6082	1.6404	2.0506	0.0353	1.8510	20	20
317719	10(7w)	10(7w)	1.0118	1.0320	1.2902	0.0332	1.1758	30	30
*317735	8(7w)	10(7w)	0.6361	0.6488	0.8111	0.0348	0.7472	50	55
*317750	6(7w)	8(7w)	0.4002	0.4082	0.5104	0.0329	0.4737	65	75
*317776	4(7w)	8(7w)	0.2516	0.2566	0.3209	0.0312	0.3024	85	95
*317792	2(7w)	6(7w)	0.1574	0.1605	0.2009	0.0299	0.1938	115	130
698571	1(19w)	6(7w)	0.1255	0.1280	0.1603	0.0288	0.1567	130	145
317818	1/0(19w)	6(7w)	0.0999	0.1019	0.1278	0.0283	0.1268	150	170
*317834	2/0(19w)	6(7w)	0.0790	0.0806	0.1011	0.0281	0.1033	175	195
660631	3/0(19w)	4(7w)	0.0627	0.0640	0.0804	0.0276	0.0844	200	225
*317867	4/0(19w)	4(7w)	0.0497	0.0507	0.0641	0.0271	0.0694	230	260
670577	250(37w)	4(7w)	0.0424	0.0432	0.0584	0.0264	0.0607	255	290
*317891	350(37w)	3(7w)	0.0301	0.0307	0.0395	0.0263	0.0468	310	350
*317917	500(37w)	2(7w)	0.0212	0.0216	0.0282	0.0250	0.0363	380	430

\*Stock Item

Notes:

1) Ampacities are based on NEC Table 310.15(B)(16) for not more than three current-carrying conductors (where the 4th conductor is the neutral of a 3-phase, 4 wire system) in raceway, cable, or earth (direct buried), based on an ambient temperature of 30°C (86°F). Refer to NEC Table 310.15(B)(2) for the ampacity correction factors where the ambient temperature is other than 30°C (86°F).

**4 CONDUCTORS WITH 1 BARE GROUND PHYSICAL DATA**

Part Number	Cond. Size AWG/kcmil	Insulation Thickness mils	Ground Wire Size AWG	Nominal Diameter over Core(in)	Nominal Diameter over Sheath(in)	Jacket Thickness mils	Nominal Diameter over Jacket(in)	Approx. Net Cable Weight (lb/kft)
317677	14(7w)	30	14(7w)	0.336	0.503	50	0.606	191
317693	12(7w)	30	12(7w)	0.396	0.549	50	0.652	245
317719	10(7w)	30	10(7w)	0.450	0.620	50	0.730	320
*317735	8(7w)	45	10(7w)	0.585	0.795	50	0.900	465
*317750	6(7w)	45	8(7w)	0.680	0.930	50	1.027	675
*317776	4(7w)	45	8(7w)	0.782	0.995	50	1.095	892
*317792	2(7w)	45	6(7w)	0.927	1.214	50	1.320	1332
698571	1(19w)	55	6(7w)	1.041	1.361	50	1.466	1628
317818	1/0(19w)	55	6(7w)	1.134	1.427	50	1.525	1922
*317834	2/0(19w)	55	6(7w)	1.238	1.598	60	1.732	2393
660631	3/0(19w)	55	4(7w)	1.356	1.730	60	1.865	2975
*317867	4/0(19w)	55	4(7w)	1.500	1.936	60	2.069	3605
670577	250(37w)	65	4(7w)	1.653	2.012	60	2.147	4110
*317891	350(37w)	65	3(7w)	1.889	2.230	75	2.387	5617
*317917	500(37w)	65	2(7w)	2.196	2.694	75	2.861	7892

\*Stock Item

**CONDUCTOR IDENTIFICATION**

**Power and control:**

Multi-conductor 14 AWG to 10 AWG:  
 Method #1-E2 per ICEA S-73-532  
 3 conductor 8 AWG to 2 AWG:  
 Method #1-E2 per ICEA S-73-532,  
 3 conductor 1 AWG to 500 kcmil:  
 Method 4 per ICEA S-73-532  
 2 & 4 conductor 8 AWG to 750 kcmil:  
 Method #4 per ICEA S-73-532

**Composite power and control:**

**Power conductors:**

Method #4 per ICEA S-73-532

**Control conductors:**

Method #1-E2 per ICEA S-73-532

**SELLING INFORMATION**

**Options**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.



The following constructions can be provided on special orders:

- Aluminum conductors
- Extra ground wires
- Special color or number coding
- Specially colored jackets
- Other constructions and combinations (some manufacturing restrictions apply)
  - UL 1309 listing and marking