

# MC SOLID NEUTRAL PER LEG – COPPER CONDUCTOR

## CIRCUIT SIZES #12 #10 AWG

### THHN/THWN SINGLE GROUND AIA ARMoured

### 600 V (UL) 4 TO 12 CONDUCTOR CONSTRUCTION

October 2016



**Conductor:**  
Bare solid soft drawn copper

**Insulation:**  
Thermoplastic high heat resistant nylon coated (THHN) / Thermoplastic high water resistant nylon coated (THWN)

**Bonding Conductor (Ground):**  
1 solid insulated copper conductor

**Aarmor:**  
Aluminum interlocked armour

**Color Coding:** Black, red, white/black, white/red, green. Standard low and high voltage colors available (please see part tables for actual colors and options) Other colors available on request

**Binder Tape:**  
Printed Polypropylene

**UL Listing**  
E189204

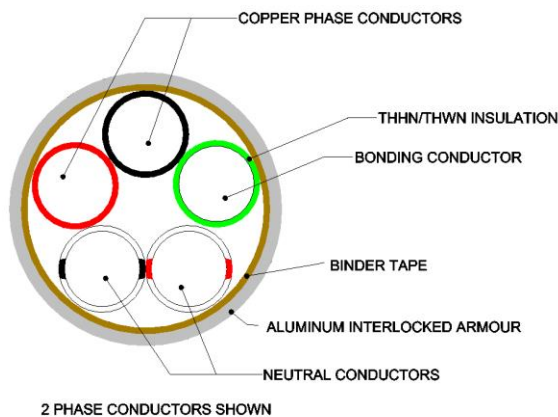
**Applications:**  
For installations where excess neutral capacity is required.  
For concealed wiring in dry locations.  
For exposed wiring in dry locations.  
For branch and feeder and service circuits in commercial, industrial, multi-residential buildings, and places of assembly.  
For power, lighting, control, and signal circuits.  
For use in cable trays in dry locations.  
For use in any raceway.  
For use as aerial cable on a messenger.  
When embedded in plaster finish on brick or other masonry, except in damp or wet locations.  
For use when run or fished in the air voids of masonry block or tile walls where such walls are not exposed or subject to excessive moisture or dampness.  
Class 1 Division 2, Class 2 Division 2 Hazardous Locations.

**Features:**  
Rated at 90°C dry  
Excellent crush resistance  
Provides long service life  
Cost effective alternative to installations in conduit

**Compliances:**  
Industry compliances: UL 1569, 2556, 83  
Gasoline and oil resistance II

(6 conductor, Double ground, Solid construction shown)

#### CONSTRUCTION:





Phone: 1-888-524-5050  
www.northerncables.com

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### THHN/THWN SINGLE GROUND AIA ARMoured 600 V (UL) 4 TO 12 CONDUCTOR CONSTRUCTION

#### SIZE: #12 CONDUCTOR

PART NO.	NO OF COND.	NO. OF GROUNDS	GROUND WIRE SIZE (AWG /kcmil)	MIN. AVG. NYLON & INSULATION THICKNESS	NOMINAL DIAMETER (OVER)		LBS/ 1000'	AMPACITY AT 90° C	INSULATION COLORS
					TWISTED CORE	ARMOR			
					INCHES	INCHES			
800508	4	1	12	0.020	0.336	0.525	156	24	Blk,Rd, Wht/Blk Wht/Rd, Grn
800385	6	1	12	0.020	0.371	0.575	205	24	Blk,Rd,Be Wht/Blk Wht/Rd, Wht/Be,Grn
800657	8	1	12	0.020	0.477	0.690	259	21	Blk,Rd,Be,Pk Wht/Blk,Wht/Rd, Wht/Be ,Wht/Pk Grn
800809	10	1	12	0.020	0.490	0.735	310	15	Blk,Rd,Be,Pk,Pl Wht/Blk,Wht/Rd, Wht/Be ,Wht, Wht/Pl ,Grn
801766	12	1	12	0.020	0.538	0.727	361	15	Blk,Rd,Be,Pk,Pl,Or Wht/Blk,Wht/Rd, Wht/Be ,Wht/Pk Wht/Pl ,Wht/Or, Grn
DIMENSIONS AND WEIGHTS ARE NOMINAL; SUBJECT TO INDUSTRY TOLERANCES									
AMPACITY IS BASED ON NEC table 310.15(B)(16) & table 400.5(A)(3)									

#### SIZE: #10 CONDUCTOR

PART NO.	NO OF COND.	NO. OF GROUNDS	GROUND WIRE SIZE (AWG /kcmil)	MIN. AVG. NYLON & INSULATION THICKNESS	NOMINAL DIAMETER (OVER)		LBS/ 1000'	AMPACITY AT 90° C	INSULATION COLORS
					TWISTED CORE	ARMOR			
					INCHES	INCHES			
800852	4	1	10	0.025	0.419	0.690	236	32	Blk,Rd, Wht/Blk Wht/Rd, Grn
800661	6	1	10	0.025	0.456	0.670	316	32	Blk,Rd,Be Wht/Blk Wht/Rd, Wht/Be,Grn
801138	8	1	10	0.025	0.549	0.761	400	28	Blk,Rd,Be,Pk Wht/Blk,Wht/Rd, Wht/Be ,Wht/Pk Grn
801671	10	1	10	0.025	0.628	0.850	480	20	Blk,Rd,Be,Pk,Pl Wht/Blk,Wht/Rd, Wht/Be ,Wht/Pk Wht/Pl ,Grn
801670	12	1	10	0.025	0.667	0.910	562	20	Blk,Rd,Be,Blk/Pk, Rd/Or,Be/Ylw, Wht/Blk Wht/Rd, Wht/Bu,Wht/Pk Wht/Or, Wht/Ylw, Grn
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AMPACITY IS BASED ON NEC table 310.15(B)(16) & table 400.5(A)(3)									

