Armorlite® Type MC THHN/THWN Circuit Size Copper Conductor Neutral Per Phase

Copper THHN/THWN Insulated Singles. Dedicated Neutral Conductor for Each Phase Conductor. Green Insulated Copper Grounding Conductor. UL Listed 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

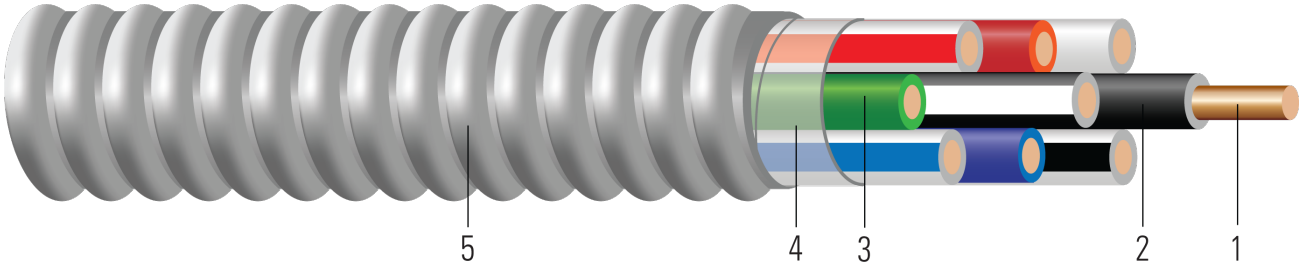

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid or 19-strands class C compressed copper per ASTM B3 and B8
2. **Insulation:** Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Ground:** Green Polyvinyl Chloride with Nylon Sheath Type THHN/THWN insulated ground conductor
4. **Binder:** Mylar tape
5. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Cable Neutral-per-phase products comply with NEC 200.4 requirements (added in the 2011 NEC) for the installation and marking of neutral conductors. Neutrals are not to be used for more than one circuit (branch, multiwire branch, or ungrounded feeder). See NEC 200.4 for complete requirements.

Southwire Armorlite® Type MC Cable (neutral per phase) is suitable for use as follow:

- Applications affected by harmonics generated from non-linear switching loads, such as computers, variable frequency drives, electrical test equipment, and office equipment
- Multiple circuits for branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings
- Fished or embedded in plaster
- Concealed or exposed installations
- Environmental air-handling spaces per NEC 300.22 (C)
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5
- Installation in cable tray and approved raceways
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2)
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations
- Binder tape with print legend wrapped around assembly
- Unjacketed Type MC cables are rated for dry, indoor locations only per NEC 330.10(A)(10)
- Type THHN/THWN rated 90ºC dry

Southwire Armorlite® Type MC Cable (neutral per phase) meets or exceeds the following requirements:

- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)

- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- UL 1479 Standard for Safety Fire Tests of Penetration Firestops
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify “Made in the USA Only!” when ordering to ensure your project receives American made products.

SAMPLE PRINT LEGEND:

E96627 {UL} TYPE MC XX AWG THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Num x Neutral Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	No. x AWG	inch	lbs/ 1000ft	lbs/ 1000ft
14 AWG | Solid											
674349◊	14	2	BK,RD,WE/BK,WE/RD,GN	0.064	Solid	20	1x14	2x14	0.5	62	116
12 AWG | Solid											
554669	12	2	BE,RD,WE/BE,WE/RD,GN	0.08	Solid	20	1x12	2x12	0.54	99	159
554992	12	2	BE,RD,WE/BE,WE/RD,GN	0.08	Solid	20	1x12	2x12	0.541	99	158
554993	12	2	BK,BE,WE/BK,WE/BE,GN	0.08	Solid	20	1x12	2x12	0.541	99	158
580818	12	2	BN,YW,GY/BN,GY/YW,GN	0.08	Solid	20	1x12	2x12	0.541	99	158
580816	12	2	OE,YW,GY/OE,GY/YW,GN	0.08	Solid	20	1x12	2x12	0.541	99	158
583558	12	2	RD,BE,WE/RD,WE/BE,GN	0.08	Solid	20	1x12	2x12	0.54	99	159
568571	12	4	BK,RD,BE,OR,GN,GN/ YW,WT,WT/BK,WT/RD,WT/BE	0.08	Solid	20	2x12	4x12	0.7	199	293
643572	12	4	BN,OE,YW,PE,GY/BN,GY/ OE,GY/YW,GY/PE,GN	0.08	Solid	20	1x12	4x12	0.661	179	266
674321	12	6	BK,RD,BE,BN,OE,YW,WT/ BK,WT/RD,WT/BE,WT/BN	0.08	Solid	20	1x12	6x12	0.856	332	495
556287	12	2	BK,RD,WE/BK,WE/RD,GN	0.08	Solid	15	1x12	2x12	0.55	99	236
12 AWG | 19 Strands											
643872	12	2	BN,YW,GY/BN,GY/YW,GN	0.088	19	20	1x12	2x12	0.567	100	166
589310	12	2	BN,OE,GN,GY/BN,GY/OE	0.088	19	20	1x12	2x12	0.567	100	166
566806	12	2	BK,BE,WE/BK,WE/BE,GN	0.088	19	20	1x12	2x12	0.567	100	166
566804	12	2	BE,RD,WE/BE,WE/RD,GN	0.088	19	20	1x12	2x12	0.567	100	166
586630	12	2	BK,BE,GN,GN/YW,WE/BE,WE/ BK	0.088	19	20	2x12	2x12	0.608	120	194
586628	12	2	RD,BE,GN,GN/YW,WE/BE,WE/ RD	0.088	19	20	2x12	2x12	0.608	120	194
551354	12	2	BK,BK/WE,WE,WE/BK,RD,RD/ WE,BE,GN,BE/WE	0.088	19	20	1x12	2x12	0.688	180	276
643875	12	2	OE,YW,GY/OE,GY/YW,GN	0.088	19	20	1x12	2x12	0.567	100	166
567272	12	4	BK,RD,BE,BK/WE,WE/BK,WE/ RD,WE/BE,WE,GN	0.088	19	20	1x12	4x12	0.688	180	275
10 AWG | Solid											
586593	10	2	BK,BE,WE/BK,WE/BE,GN	0.101	Solid	25	1x10	2x10	0.624	154	231
587191	10	2	BK,RD,BE,OE,GN,GN/ YW,WE,WE/RD	0.101	Solid	25	2x10	2x10	0.777	247	382
578270	10	2	RD,BE,WE/RD,WE/BE,GN	0.101	Solid	25	1x10	2x10	0.624	154	232
573933	10	2	OE,YW,GN,GY/OE,GY/YW	0.101	Solid	25	1x10	2x10	0.624	154	231
592357	10	4	BN,OE,YW,PE,GY/BN,GY/ OE,GY/YW,GY/PE,GN	0.101	Solid	25	1x10	4x10	0.823	278	424
674302	10	4	BK,RD,BE,PK,WE/BK,WE/ RD,WE/BE,WE/PK,GN	0.101	Solid	25	1x10	4x10	0.823	278	425
643574	10	4	BK,RD,BE,PE,WE/BK,WE/ RD,WE/BE,WE/PE,GN	0.101	Solid	25	1x10	4x10	0.823	278	425

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Num x Neutral Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	No. x AWG	inch	lbs/ 1000ft	lbs/ 1000ft
679155	10	5	RD,WT/RD,BE,WT/BE,BK/ WT,WT/BK,RD/YW,WT/YW,BE/ BK,BK	0.101	Solid	25	1x10	5x10	0.951	402	590
641911	10	5	BK,RD,BE,BK/WT,RD/ BK,WT,WT/BK,WT/RD,WT/ BE,WT/YW,GN	0.101	Solid	25	1x10	5x10	0.883	340	506
674364	10	6	BN,BN,OR,OR,YW,YW,GY/ BN,GY/BN,GY/OR,GY/OR,GY/ YW,GY	0.101	Solid	25	1x10	6x10	0.946	402	587
679826	10	6	BK,BK,RD,RD,BE,BE,WT/ BK,WT/BK,WT/RD,WT/RD,WT/ BE,WT	0.101	Solid	25	1x10	6x10	0.946	402	590
588881	10	6	BK,RD,BE,OR,YW,BN,WT/ BK,WT/RD,WT/BE,WT/OR,WT/ YW,WT	0.101	Solid	25	2x10	6x10	0.946	434	626
643903	10	2	BK,RD,WE/BK,WE/RD,GN	0.101	Solid	20	1x10	2x10	0.634	154	322
10 AWG | 19 Strands											
646772	10	1	TAN,GY/TAN,GN	0.113	19	25	1x10	1x10	0.571	97	161
587542	10	1	YW,GY/YW,GN	0.113	19	25	1x10	1x10	0.574	97	162
646774	10	1	PK,GY/PK,GN	0.113	19	25	1x10	1x10	0.571	97	161
646770	10	1	PE,GY/PE,GN	0.113	19	25	1x10	1x10	0.574	97	162
587544	10	1	OE,GY/OE,GN	0.113	19	25	1x10	1x10	0.574	97	162
674430	10	2	BK,RD,BK/BE,RD/BE,WE,WE/ BE,GN	0.113	19	25	1x10	2x10	0.775	226	365
597927	10	2	RD,BE,GN,WE/RD,WE/BE	0.113	19	25	1x10	2x10	0.665	161	250
587183	10	2	OE,YW,GY/OE,GY/YW,GN	0.113	19	25	1x10	2x10	0.665	161	250
587185	10	2	BN,YW,GY/BN,GY/YW,GN	0.113	19	25	1x10	2x10	0.665	161	250
597925	10	2	BK,BE,GN,WE/BK,WE/BE	0.113	19	25	1x10	2x10	0.665	161	250
679451	10	3	BK,BK,RD,RD,BE,BE,WT/ BK,WT/RD,WT/BE,GN	0.113	19	25	1x10	3x10	0.944	323	505
649588	10	5	BK,RD,BK/WT,BK/RD,RD/ WT,WT,WT/RD,WT/BE,WT/ BK,WT/PK	0.113	19	25	1x10	5x10	0.944	355	544
12 AWG | Solid											
554994◊	12	1	RD,WE/RD,GN	0.08	Solid	20	1x12	1x12	0.474	59	105
552795◊	12	2	BK,RD,WE/BK,WE/RD,GN	0.08	Solid	20	1x12	2x12	0.55	99	159
610666◊	12	2	See Table	0.08	Solid	20	2x12	2x12	0.577	119	187
554991◊	12	2	BK,RD,GN,WE/BK,WE/RD	0.08	Solid	20	1x12	2x12	0.541	99	159
610669◊	12	3	See Table	0.08	Solid	20	2x12	3x12	0.616	159	238
554990◊	12	3	See Table	0.08	Solid	20	1x12	3x12	0.577	139	211
566811◊	12	4	See Table	0.08	Solid	20	1x12	4x12	0.652	179	266
643570◊	12	4	See Table	0.08	Solid	20	1x12	4x12	0.661	179	266
643654◊	12	6	See Table	0.08	Solid	20	1x12	6x12	0.81	259	402
580850◊	12	6	See Table	0.08	Solid	20	1x12	6x12	0.81	259	401
674313◊	12	7	See Table	0.08	Solid	20	1x12	7x12	0.846	299	453

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Num x Neutral Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	No. x AWG	inch	lbs/ 1000ft	lbs/ 1000ft
641211◊	12	9	See Table	0.08	Solid	20	1x12	9x12	0.812	369	494
10 AWG | Solid											
567063◊	10	2	BK,RD,WE/BK,WE/RD,GN	0.101	Solid	25	1x10	2x10	0.625	154	232
552996◊	10	2	See Table	0.101	Solid	25	2x10	2x10	0.671	185	274
641220◊	10	2	See Table	0.101	Solid	25	2x10	2x10	0.671	185	274
556259◊	10	3	See Table	0.101	Solid	25	1x10	3x10	0.671	216	311
610673◊	10	3	See Table	0.101	Solid	25	2x10	3x10	0.777	247	382
554852◊	10	4	See Table	0.101	Solid	25	2x10	4x10	0.884	309	469
567269◊	10	4	See Table	0.101	Solid	25	1x10	4x10	0.824	278	425
677655◊	10	5	See Table	0.101	Solid	25	1x10	5x10	0.884	340	506
590115◊	10	5	See Table	0.101	Solid	25	1x10	5x10	0.884	340	506
585848◊	10	5	See Table	0.101	Solid	25	1x10	5x10	0.884	342	508
566546◊	10	6	See Table	0.101	Solid	25	1x10	6x10	0.884	340	505
679158◊	10	7	See Table	0.101	Solid	25	1x10	7x10	0.924	468	652
12 AWG | 19 Strands											
551322◊	12	2	See Table	0.09	19	20	2x12	2x12	0.607	120	195
566801◊	12	2	BK,RD,GN,WE/BK,WE/RD	0.09	19	20	1x12	2x12	0.568	100	167
551324◊	12	3	See Table	0.09	19	20	2x12	3x12	0.649	160	249
562687◊	12	3	See Table	0.09	19	20	1x12	3x12	0.607	140	220
10 AWG | 19 Strands											
586636◊	10	2	See Table	0.117	19	25	2x10	2x10	0.776	194	325
563822◊	10	2	BK,RD,GN,WE/BK,WE/RD	0.117	19	25	1x10	2x10	0.666	161	251
553238◊	10	3	See Table	0.117	19	25	1x10	3x10	0.776	226	365
587625◊	10	3	See Table	0.117	19	25	1x10	3x10	0.78	226	368
562456◊	10	3	See Table	0.117	19	25	1x10	3x10	0.776	226	365
551336◊	10	3	See Table	0.117	19	25	2x10	3x10	0.828	258	411
566698◊	10	4	See Table	0.117	19	25	1x10	4x10	0.879	291	457
647335◊	10	8	See Table	0.117	19	25	1x10	8x10	1.023	549	768

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
Note: Conductor number = number of phase conductors. Does not include neutrals and green ground.
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Cond. Size	Conductor Number	Neutral Stranding	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil			Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
14 AWG | Solid								
14	2	2	3.6	2.631	3.17	0.058	16	20
12 AWG | Solid								
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	4	4	4.9	1.662	2.002	0.054	12	15
12	4	4	4.6	1.662	2.002	0.054	12	15
12	6	6	6.0	1.662	2.002	0.054	12	15
12	2	2	4.6	1.662	2.002	0.054	20	24
12 AWG | 19 Strands								
12	2	2	4	1.662	2.002	0.054	20	24
12	2	2	4	1.662	2.002	0.054	20	24
12	2	2	4	1.662	2.002	0.054	20	24
12	2	2	4	1.662	2.002	0.054	20	24
12	2	2	4.3	1.662	2.002	0.054	20	24
12	2	2	4.3	1.662	2.002	0.054	20	24
12	2	2	4.8	1.662	2.002	0.054	12	15
12	2	2	4	1.662	2.002	0.054	20	24
12	4	4	4.8	1.662	2.002	0.054	12	15
10 AWG | Solid								
10	2	2	4.4	1.04	1.253	0.05	28	32
10	2	2	5.4	1.04	1.253	0.05	24	28
10	2	2	4.4	1.04	1.253	0.05	28	32
10	2	2	4.4	1.04	1.253	0.05	28	32
10	4	4	5.8	1.04	1.253	0.05	17	20
10	4	4	5.8	1.04	1.253	0.05	17	20
10	4	4	5.8	1.04	1.253	0.05	17	20
10	5	5	6.7	1.04	1.253	0.05	17	20
10	5	5	6.2	1.04	1.253	0.05	17	20
10	6	6	6.6	1.04	1.253	0.05	17	20
10	6	6	6.6	1.04	1.253	0.05	17	20
10	6	6	6.6	1.04	1.253	0.05	17	20
10	2	2	5.2	1.04	1.253	0.05	28	32
10 AWG | 19 Strands								
10	1	1	4	1.04	1.253	0.05	35	40
10	1	1	4	1.04	1.253	0.05	35	40

Cond. Size	Conductor Number	Neutral Stranding	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil			Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
10	1	1	4	1.04	1.253	0.05	35	40
10	1	1	4	1.04	1.253	0.05	35	40
10	1	1	4	1.04	1.253	0.05	35	40
10	2	2	5.4	1.04	1.253	0.05	24	28
10	2	2	4.7	1.04	1.253	0.05	28	32
10	2	2	4.7	1.04	1.253	0.05	28	32
10	2	2	4.7	1.04	1.253	0.05	28	32
10	2	2	4.7	1.04	1.253	0.05	28	32
10	3	3	6.6	1.04	1.253	0.05	17	20
10	5	5	6.6	1.04	1.253	0.05	17	20
12 AWG | Solid								
12	1	1	3.4	1.662	2.002	0.054	25	30
12	2	2	3.8	1.662	2.002	0.054	20	24
12	2	2	4.1	1.662	2.002	0.054	20	24
12	2	2	3.8	1.662	2.002	0.054	20	24
12	3	3	4.4	1.662	2.002	0.054	20	24
12	3	3	4.1	1.662	2.002	0.054	20	24
12	4	4	4.6	1.662	2.002	0.054	17	21
12	4	4	4.6	1.662	2.002	0.054	17	21
12	6	6	5.7	1.662	2.002	0.054	12	15
12	6	6	5.7	1.662	2.002	0.054	12	15
12	7	7	5.9	1.662	2.002	0.054	12	15
12	9	9	5.7	1.662	2.002	0.054	12	15
10 AWG | Solid								
10	2	2	4.4	1.04	1.253	0.05	28	32
10	2	2	4.8	1.04	1.253	0.05	28	32
10	2	2	4.8	1.04	1.253	0.05	28	32
10	3	3	4.8	1.04	1.253	0.05	28	32
10	3	3	5.4	1.04	1.253	0.05	28	32
10	4	4	6.2	1.04	1.253	0.05	24	28
10	4	4	5.8	1.04	1.253	0.05	24	28
10	5	5	6.2	1.04	1.253	0.05	17	20
10	5	5	6.2	1.04	1.253	0.05	17	20
10	5	5	6.2	1.04	1.253	0.05	17	20
10	6	6	6.2	1.04	1.253	0.05	17	20
10	7	7	6.5	1.04	1.253	0.05	17	20
12 AWG | 19 Strands								
12	2	2	4.3	1.662	2.002	0.054	20	24
12	2	2	4	1.662	2.002	0.054	20	24
12	3	3	4.6	1.662	2.002	0.054	20	24
12	3	3	4.3	1.662	2.002	0.054	20	24
10 AWG | 19 Strands								

Cond. Size	Conductor Number	Neutral Stranding	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil			Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
10	2	2	5.4	1.04	1.253	0.05	28	32
10	2	2	4.7	1.04	1.253	0.05	28	32
10	3	3	5.4	1.04	1.253	0.05	28	32
10	3	3	5.5	1.04	1.253	0.05	28	32
10	3	3	5.4	1.04	1.253	0.05	28	32
10	3	3	5.8	1.04	1.253	0.05	28	32
10	4	4	6.1	1.04	1.253	0.05	24	28
10	8	8	7.2	1.04	1.253	0.05	17	20

***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

***** Ampacities have been adjusted for more than Three Current-Carrying Conductors.

Color Table - Conductor number = number of phase conductors. Does not include neutrals and green ground. (/ means stripe RD/WE is Red with White Stripe)

Size (Strand)	Cond Number	Stock Code	Color
14 (Solid)	2	674349	BK, RD, WE/BK, WE/RD, GN
12 (Solid)	1	554994	RD, WE/RD, GN
12 (Solid)	2	554991	BK, RD, GN, WE/BK, WE/RD
12 (Solid)	2	610666	BK, RD, GN, GN/YW, WE/BK, WE/RD
12 (Solid)	2	552795	BK, RD, WE/BK, WE/RD, GN
12 (Solid)	3	554990	BK, RD, BE, GN, WE/BK, WE/RD, WE/BE
12 (Solid)	3	610669	BK, RD, BE, GN, GN/YW, WE/BK, WE/RD, WE/BE
12 (Solid)	4	566811	BK, RD, BE, BK/WE, WE, WE/RD, WE/BE, WE/BK, GN
12 (Solid)	4	643570	BK, RD, BE, PE, WE/BK, WE/RD, WE/BE, WE/PE, GN
12 (Solid)	6	643654	BK, RD, BE, PK, PE, YW, GN, WE/BK, WE/RD, WE/BE, WE/PK, WE/PE, WE/YW
12 (Solid)	6	580850	BK, RD, BE, BK/RD, RD/BE, BE/BK, GN, WE, WE/BK, WE/RD, WE/BE, WE/BK, WE/RD
12 (Solid)	6	674321	BK, RD, BE, BN, OE, YW, WE/BK, WE/RD, WE/BE, WE/BN, WE/OE, WE/YW, BK, WE/BK, GN
12 (Solid)	7	674313	BK, RD, BE, BK/YW, RD/YW, BE/YW, BK/RD, WE, WE/BK, WE/RD, WE/BE, WE/BK, WE/RD, WE/BE, GN
12 (Solid)	9	641211	BK, BK, BK, RD, RD, RD, BE, BE, BE, WE, WE, WE, WE, WE, WE, WE, WE, GN
10 (Solid)	2	567063	BK, RD, WE/BK, WE/RD, GN
10 (Solid)	2	641220	BK, RD, GN, GN/YW, WE/BK, WE/RD
10 (Solid)	2	552996	BK, RD, WE, WE/BE, GN, GN/YW
10 (Solid)	3	556259	BK, RD, BE, GN, WE/BK, WE/RD, WE/BE
10 (Solid)	3	610673	BK, RD, BE, GN, GN/YW, WE/BK, WE/RD, WE/BE
10 (Solid)	4	567269	BK, RD, BE, BK/WE, GN, WE/BK, WE/RD, WE/BE, WE
10 (Solid)	4	554852	BK, RD, BE, BK/RD, WE, WE/BK, WE/RD, GN, GN/YW, WE/BE
10 (Solid)	5	590115	BK, BK, RD, RD, BE, WE/BK, WE/BK, WE/RD, WE/RD, WE/BE, GN
10 (Solid)	5	677655	BK, RD, BE, BK/RD, RD/BK, WE, WE/BK, WE/RD, WE/BE, WE/PK, GN
10 (Solid)	5	585848	BK, RD, BE, WE/BK, WE/RD, WE/BE, BK/BN, RD/OE, WE/BN, WE/OE, GN
10 (Solid)	7	679158	BK, WE, RD, WE/RD, BE, WE/BE, BK/WE, WE/BK, RD/YW, WE/YW, BE/OE, WE/OE, PE, WE/PE, GN
12 (19)	2	566801	BK, RD, GN, WE/BK, WE/RD
12 (19)	2	551322	BK, RD, GN, GN/YW, WE/BK, WE/RD
12 (19)	3	562687	BK, RD, BE, WE/BK, WE/RD, WE/BE, GN
12 (19)	3	551324	BK, RD, BE, GN, GN/YW, WE/BK, WE/RD, WE/BE
10 (19)	2	563822	BK, RD, GN, WE/BK, WE/RD
10 (19)	2	586636	BK, RD, GN, GN/YW, WE/BK, WE/RD
10 (19)	3	553238	BK, RD, BE, WE, WE/BK, GN, WE/RD
10 (19)	3	562456	BK, RD, BE, GN, WE/BK, WE/RD, WE/BE
10 (19)	3	551336	BK, RD, BE, GN, GN/YW, WE/BK, WE/RD, WE/BE
10 (19)	3	587625	BK, RD, BE, GN, WE/BK, WE/RD, WE/BE
10 (19)	4	566698	BK, BK/WE, RD, BE, GN, WE, WE/BK, WE/RD, WE/BE
10 (19)	8	647335	BK, BK, BK, BK, BK, BK, BK, BK, WE, WE, WE, WE, WE, WE, WE, WE, GN