

Nordstrom Contracting
 Consulting Corp
 36 Theills Mt Ivy Rd
 Pomona, NY 10970

LETTER OF TRANSMITTAL

Project# 620-13-117
 ADA Bathroom Renovations

4/5/2016

To: Mark Cooperman
 General Engineer
 Montrose Campus
 2094 Albany Post Rd
 Montrose, NY 10548
 914-737-4400 ex 2615

Submittal # 4

We are sending you Herewith Delivered by Hand Under Separate Cover Via ELECTRONIC

Plans Prints Shop Dwgs Samples Specifications Other _____

Copies	Item	# Pages	Description
			<u>Division 26- Electrical</u>
			<u>Section 260519- Low Voltage Electrical Conductors and Cables</u>
			Nurse Call- Edwards- Call For Assistance Kit- 6538-G5
1	1	3	** Kit consists of Edwards 6536-GF Horn/Strobe- 592 Transformer & 6537 Pullcord
			** This is same make & model installed in all other bathroom renovations we've completed at Montrose & Castle Point
			<u>Section 260526- Grounding & Bonding for Electrical Systems</u>
			N/A
			<u>Section 260533- Raceway and Boxes for Electrical Systems</u>
	2	6	Power-Strut - Kindorf- Various sizes and types- TBD in field per code and condition
	3	3	Thomas & Betts- Steel City- Metallic boxes & covers- Various sizes and types- TBD in field- Per code & condition
	4	2	Allied- E-Z Pull EMT- Size TBD in field per code & condition
	5	2	ETP- EMT Steel Compression Connectors & Couplings. Sizes TBD in field per code & condition
	6	2	Minerallac- Conduit Hangers. Sizes TBD in field per code and condition
	7	2	Threaded Rod & threaded rod accessories- fender washers, washers, nuts and couplings. Sizes TBD in field per code & condition
	8	1	Ideal- Twister Wire Connectors- Sizes/colors TBD in field per code & condition
			<u>Section 260923- Lighting Controls</u>
	9	2	WattStopper- DW-100 Dual Technology Wall Occupancy Sensor- White
	10	2	WattStopper- DW-300 Low voltage dual technology ceiling sensor- White

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			<u>Section 262726- Wiring</u>
	11	2	Southwire- Individual Conductors- Size/Color TBD determined in field- Per code & condition
	12	2	Southwire- Lite-Whip pre-assembled 6' 14AWG - LWL-143
			<u>Section 262921- Enclosed switches & circuit breakers</u>
			N/A
			<u>Section 265100- Lighting</u>
	13	6	Lithonia- 2x2 troffers- submitting a few options in case availability problems. Different suppliers stock different model troffers.

The Above Listed Items are transmitted as indicted below:

Return By Date: SEE BAR CHART

Approval As Requested For Your Use For Construction

 Approved As Noted Submit _____ Copies for Record Distribution

Remarks: _____

600 Volts. Copper Conductor
Thermoplastic Insulation/ SIM Nylon Sheath
Heat, Moisture, Gasoline, and Oil Resistant II
Also Rated MTW and THWN-2
SIM Technology® for Easier Pulling



APPLICATIONS

Southwire SIMpull THHN or THWN-2 conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code. Voltage for all applications is 600 volts. SIMpull THHN conductors are designed to be used without application of pulling lubricant. Allowable temperatures are as follows:

- THHN or T90 Nylon- Dry locations not to exceed 90° C
- THWN-2- Wet or dry locations not to exceed 90° C or locations not to exceed 75° C when exposed to oil
- TWN75- Wet locations not to exceed 75° C
- MTW- Wet locations or when exposed to oil at temperatures not to exceed 60° C or dry locations not to exceed 90° C (with ampacity limited to that for 75° C conductor temperature per NFPA 79)
- AWM- Dry locations not to exceed 105° C when rated and used as appliance wiring material

SPECIFICATIONS

Southwire SIMpull THHN ® or THWN-2 or MTW (also AWM) comply with:

- ASTM - All applicable standards
- UL Standard 83, 1581, and 1063(MTW)
- T90 Nylon/TWN75 sizes through 1000 kcmil CSA C22.2 No. 75
- NOM-ANCE 90° C
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70
- VW-1 - Sizes 14 through 1 AWG
- CT rated in sizes 1/0 AWG and larger
- FT1
- AWM - Sizes 14 through 6 AWG. MTW available in stranded only
- NEMA WC-70 Construction Requirements
- RoHS/REACH Compliant

Construction

Southwire SIMpull THHN or THWN-2 or MTW copper conductors are soft annealed copper. #14 - 4/0 AWG uses a combination unilay strand and 250 kcmil and larger uses a compressed copper strand. The wire is insulated with a tough heat and moisture resistant poly vinyl chloride (PVC), over which a SIM (SLIKQWIK® Infused Membrane) nylon (polyamide) or UL Recognized equal jacket is applied. Available in black, white, red, blue, purple, green, yellow, orange, brown and gray. Some colors are subject to economic order quantity. Marked sunlight resistant in sizes 2 AWG and larger.

THWN-2 available in sizes 8 AWG and larger .

Sizes 14 - 10 AWG are available with SIMpull Technology only in SIMpull Barrel configurations.



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SIMpull THHN

Conductor		Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (mils)	Approx. Weight per 1000' (lbs)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	Number of Strands					60° C	75° C	90° C	
14*	1	15	4	102	15	15	15	AC	
12*	1	15	4	119	23	20	20	AC	
10*	1	20	4	150	36	30	30	AC	
14*	19	15	4	109	16	15	15	AC	
12*	19	15	4	128	24	20	20	AC	
10*	19	20	4	161	38	30	30	AC	
8	19	30	5	213	63	40	50	55	ABCD
6	19	30	5	249	95	55	65	75	ABCD
4	19	40	6	318	152	70	85	100	ABCD
3	19	40	6	346	189	85	100	115	ABCD
2	19	40	6	378	234	95	115	130	ABCD
1	19	50	7	435	299	110	130	145	ABCD
1/0	19	50	7	474	372	125	150	170	ABCD
2/0	19	50	7	518	462	145	175	195	ABCD
3/0	19	50	7	568	575	165	200	225	ABCD
4/0	19	50	7	624	718	195	230	260	ABCD
250	37	60	8	694	851	215	255	290	ABCD
300	37	60	8	747	1012	240	285	320	ABC
350	37	60	8	797	1174	260	310	350	ABC
400	37	60	8	842	1334	280	335	380	ABC
500	37	60	8	926	1655	320	380	430	ABCD
600	61	70	9	1024	1987	350	420	475	ABC
750	61	70	9	1126	2464	400	475	535	BC
1000	61	70	9	1275	3257	455	545	615	C

* Sizes 14 - 10 AWG available with patented Sim Technology® No Lube® jacket only in SIMpull® Wire Barrel configurations.
+Allowable ampacities shown are for general use as specified by the 2011 Edition of the National Electrical Code Section 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures the conductor shall be limited to the following per NEC 110.14(C).
60° C - When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors.
75° C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90° C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.

Standard Package:
A - 2500' Reel
B - 1000' Reel
C - 500' Spool
D - 5000' Reel



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LITE-WHIP®

PRE-ASSEMBLED STEEL FLEX 6' FIXTURE WHIPS



APPLICATIONS Suitable for use as follows:

- Complete assembly delivered from the factory ready to install. Includes 6" wire leads at each end and Lock-nut or Snap-in Fittings for easy and hassle-free hook-ups
- Convenient labor-and material-saving assemblies
- Convenient packaging is quick and easy to handle
- Commonly used for connecting fluorescent lay-in fixtures and incandescent fixtures for suspended and accessible ceilings

STANDARDS & REFERENCES

Lite-Whip® is UL Listed under the Wiring Assemblies (QQYZ) category.

CONSTRUCTION

Lite-Whip® is constructed with a continuously interlocked steel armor, solid or stranded THHN or THWN, solid TFN or stranded TFFN conductors, and approved Lock-nut or Snap-in fittings.

**Interlocked Steel Armor
with Factory Installed
Conductors**

**Factory Installed
Lock-nut or Snap-in
Fittings**

600 Volt

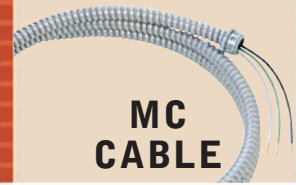
**Sizes 18-16 AWG Copper
TFN or TFFN**

**Sizes 14 AWG through 12
AWG Copper THHN/THWN**

**Green Insulated Copper
Grounding Conductor**

**6" Conductor Leads with
1/2" Insulation Stripped**





WEIGHTS, MEASUREMENTS AND PACKAGING

PART NUMBER	WIRE SIZE # OF COND./SIZE	CONDUCTOR STRANDING	CARTON PACKAGE QUANTITY/WEIGHT	BARREL PACKAGE QUANTITY/WEIGHT
LOCK-NUT FITTINGS WITH SOLID THHN/THWN OR TFN CONDUCTORS				
LWL183	3 x #18 AWG	Solid	30 Units / 23 lbs	100 Units / 80 lbs
LWL184	4 x #18 AWG	Solid	30 Units / 24 lbs	100 Units / 84 lbs
LWL143	3 x #14 AWG	Solid	30 Units / 25 lbs	100 Units / 85 lbs
LWL144	4 x #14 AWG	Solid	30 Units / 26 lbs	100 Units / 90 lbs
LWL123	3 x #12 AWG	Solid	30 Units / 30 lbs	100 Units / 95 lbs
SNAP-IN FITTINGS WITH SOLID THHN/THWN OR TFN CONDUCTORS				
LWS183	3 x #18 AWG	Solid	30 Units / 23 lbs	100 Units / 80 lbs
LWS184	4 x #18 AWG	Solid	30 Units / 24 lbs	100 Units / 84 lbs
LWS143	3 x #14 AWG	Solid	30 Units / 25 lbs	100 Units / 85 lbs
LWS144	4 x #14 AWG	Solid	30 Units / 26 lbs	100 Units / 90 lbs
LWS123	3 x #12 AWG	Solid	30 Units / 30 lbs	100 Units / 95 lbs
SNAP-IN FITTINGS WITH STRANDED THHN/THWN OR TFN CONDUCTORS				
LWS183S	3 x #18 AWG	Stranded	30 Units / 23 lbs	100 Units / 80 lbs
LWS184S	4 x #18 AWG	Stranded	30 Units / 24 lbs	100 Units / 84 lbs
LWS143S	3 x #14 AWG	Stranded	30 Units / 25 lbs	100 Units / 85 lbs
LWS144S	4 x #14 AWG	Stranded	30 Units / 26 lbs	100 Units / 90 lbs
LWS123S	3 x #12 AWG	Stranded	30 Units / 30 lbs	100 Units / 95 lbs

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING
		120/208Y
2		black, red
3		black, white, red
Grounding Conductor		green

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING
		277/480Y
2		brown, grey
2		orange, grey
2		yellow, grey
2		purple, grey
3		brown, yellow, grey
3		brown, orange, grey
4		brown, orange, yellow, grey
4		brown, yellow, purple, grey

*Optional 277/480Y Volt High Voltage Colors are available subject to economic order quantity.

ONLINE CERTIFICATIONS & TOOLS

- UL Online Certification Directory (www.ul.com)
- UL Online Product Guide Info - Wiring Assemblies (QQYZ) (www.ul.com)

FULL ENGINEERING SPECIFICATIONS AVAILABLE AT WWW.SOUTHWIRE.COM/COMMERCIALPRODUCTSPECS