ELECTRONIC, CONTROL, AND POWER CABLE

From the Cable Design and Manufacturing Experts

QUABBIN® WIRE & CABLE CO., INC.

Featuring SignalGuard™ Cable

Catalog and Reference Guide

www.quabbin.com

Choose Quabbin — the Cable Design and Manufacturing Experts

Quabbin Wire & Cable Co., Inc. has been dedicated to providing high-quality wire and cable solutions from our central Massachusetts facility since 1975. Our advanced design, manufacturing, and customer service deliver world-class products with exceptional value. We believe we only succeed when our customers succeed.

Our reputation is built on delivering products that perform flawlessly, time after time. We're proud to offer cable that is 100% USA-made in a single manufacturing location. Advanced real-time process controls monitor quality and dimensional integrity throughout the production cycle, ensuring that every reel of cable meets the highest standards of quality and craftsmanship. Our focus on precision ensures you receive reliable products that drive assembly efficiency by increasing yield and reducing rework and scrap.

PROUDLY MADE IN THE U.S.A.

Quabbin's customers invest in dependability. Our ISO 9001 quality system ensures superior consistency and a sharp focus on customer needs. With inventory strategically stocked across North America, ordering and delivery are quick and hassle-free. Our reliable, on-time delivery keeps your work on schedule.

We make doing business easy. Whether you need to connect with our cable design engineering experts or our dedicated sales support team, you'll find no gatekeepers—just direct, responsive communication. Our talented team aims to understand your unique needs, offering tailored solutions that include custom packaging and design options to meet your specifications.

For five decades, Quabbin Wire & Cable has been the trusted partner of assemblers, OEMs, and cable distributors. Our goal is to provide not just products, but solutions that align with your engineering requirements and operational goals. Trust us to be your partner in success.

www.quabbin.com • (800) 368-3311

Cable Finder

Search our products:

- Application
- Part Number
- Construction
- Ratings & Approvals
- Physical Properties
- Category

www.quabbin.com/cable-finder

Inventory Finder

Check our inventory:

- Part Number
- Warehouse Location
- Quantity Available

www.quabbin.com/inventory

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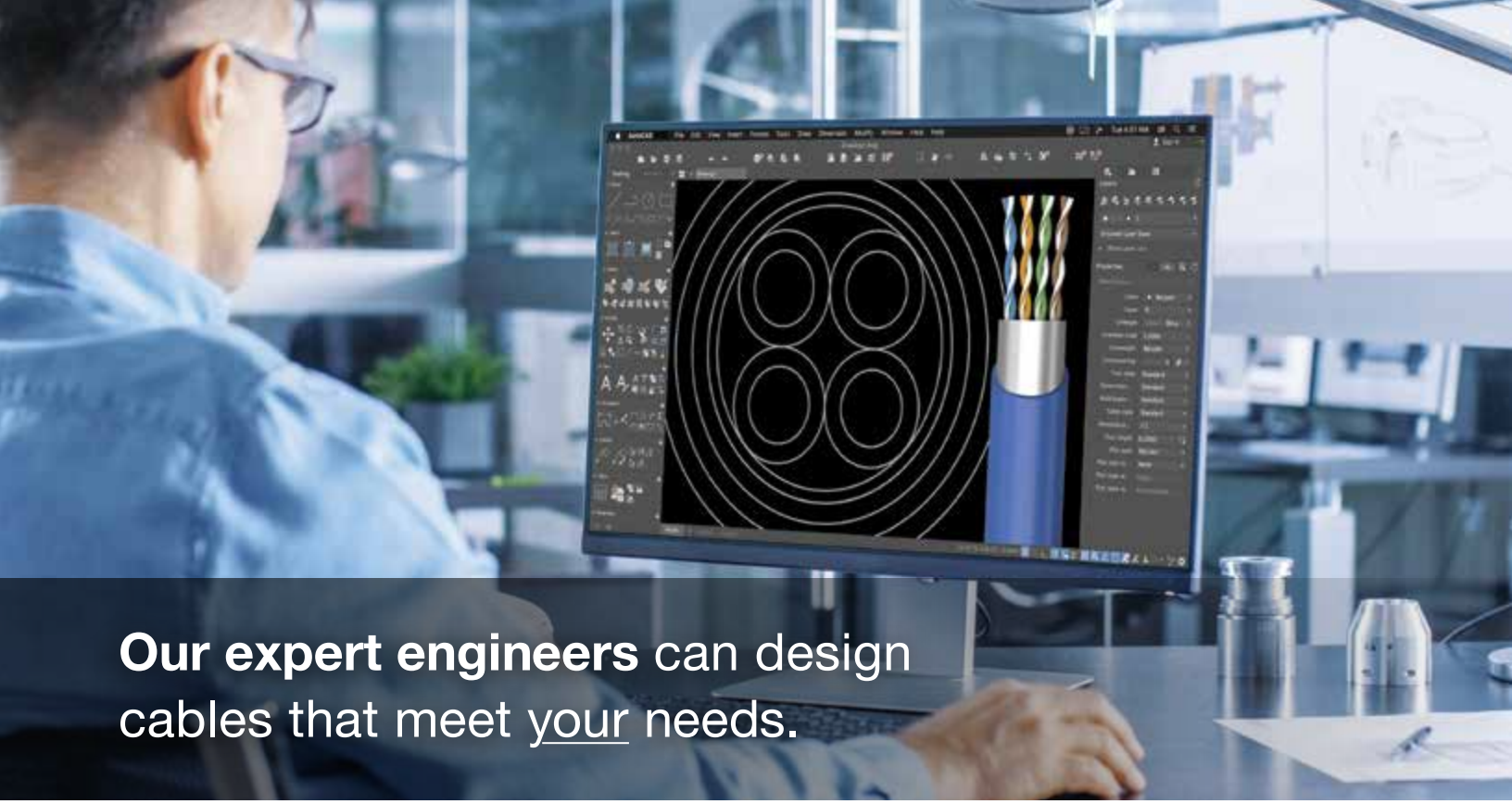


Our expert engineers can design cables that meet your needs.

Call 1-800-368-3311 to speak with a Cable Design Expert.

Quabbin's product development team continually collects data from customers, end users and market experts to inform and shape new generations of products. We are committed to the industry and to working together to meet future needs. Contact our cable design experts at **1-800-368-3311** for technical support for your application and project needs.

Quabbin's cable design team: Jim Rivernider, Samantha Herr, and Zach Smigelski

We are continually updating our capabilities to meet customers' evolving needs.

Contact our cable design experts at 1-800-368-3311 to discuss your cable design and packaging requirements.

Cable Types & Applications

- SignalGuard™ Electronic Cable
  - Audio & Broadcast
  - Electronic Control
  - Serial Communication
- Control and Power Cable
  - Tray Rated/PLTC
  - SignalGuard™ Building Automation & Control
  - SignalGuard™ Instrumentation & Machine Control
  - SignalGuard™ Roadway Loop

Features

- RoHS compliant
- Sunlight resistant jackets
- Chemical/oil resistant jackets
- Weld spatter resistant jackets

Construction

- 1-60 Conductor
- 1-50 Pair
- 1, 2, 4 and 8 Triad
- Shielded and unshielded
- Individually shielded components
- Ripcord
- Communication wire
- Drain wire
- Composite constructions
- Common axis
- Talc-free lubricant for strippability
- Strength member

Insulation Materials

- Foamed FEP
- Foamed Polypropylene
- HDPE
- LDPE
- Low Smoke PVC
- LSZH
- PPRO
- PVC
- Semi-Rigid PVC
- TPE

Copper

- 30-10 AWG
- Tinned
- Bare
- Stranded
- Solid

Shielding and Tapes

- Aluminum polyester foil with a drain wire
- Aluminum polyester foil with a tinned copper braid
- Jacket bonded aluminum foil shield with a drain wire
- Tinned copper braid
- Tinned or bare copper spiral serve
- Water-blocking tapes and fillers

Jacket Materials

- PVC
- Industrial PVC
- TPE
- PUR (TPU)
- ZHRF PUR (TPU)
- CPE
- PVDF
- HDPE
- Matte finish PVC
- LSZH
- Low smoke PVC

Jacket Type

- Pressure
- Tubed

Color

- Longitudinal stripes
- Spiral stripes
- Custom jacket colors
- Color matching to standards and samples

Print & Identification

- Private labeling
- Printed insulated conductors
- Custom print legends
- Sequential footage or meter marking
- Date codes
- Preprinted tape wraps
- Threads
- Logos and graphics

Packaging

- Plywood reels
- Wooden reels
- Plastic reels
- Boxed reels
- Labels/bar coding/QR codes

Ratings, Listings & Approvals

- CL2, CL2P, CL3
- CMX, CM, CMG, CMR, CMP
- CSA AWM I/II A/B
- CSA FAS 105
- FT1, FT4, FT6 Flame Test
- ITC, ITC-ER
- NSF 61
- PLTC, PLTC-ER
- UL AWM Styles 2092, 2093, 2094, 2095, 2106, 2107, 2448, 2463, 2464, 2586, 2598, 2919, 20093 (for more, contact our cable design experts)
- Voltage Rating Max 250V, 300V, 350V, 600V
- VW-1 Flame Test
- Other ratings and approvals upon request

SignalGuard™ Audio & Broadcast
24 AWG Multiconductor

Construction
- 24 AWG Stranded Bare Copper
- Polyethylene Insulation
- Matte Finish PVC Jacket
- Shielded with Overall 95% Coverage Tinned Copper Braid
- Color Code
  - 2 Blue
  - 2 White
  - One Blue and one White conductor striped for identification when used as 4/C cable

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- QWC Suggested Working Voltage 100V

Braid Shielded

Part Number	AWG	Stranding	Cond. Count	Jacket Color	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/ Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual][a]	Nom. Cap. pF/ft [Grounded][b]
8490	24	42/40	4	Black	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4
8492	24	42/40	4	Red	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4
8494	24	42/40	4	Yellow	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4
8495	24	42/40	4	Green	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4
8496	24	42/40	4	Blue	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4
8498	24	42/40	4	Gray	.055/1.40	.245/6.22	-20/60	39.0	39.2	57.4

a = Capacitance between 2 Blue conductors tied together and 2 White conductors tied together.

b = Capacitance between 2 like-colored conductors and other conductors connected to the shield.

SignalGuard™ Audio & Broadcast
24 AWG One Pair

Construction
- 24 AWG Solid Tinned Copper
- Foamed Polypropylene Insulation
- PVC Jacket
- Aluminum Vinyl Tape Bonded to Jacket and Solid Tinned Copper Drain Wire Inside Tape Layer
- Color Code: Black and White
- Nom. Imped. 110 ohms

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- Attenuation
  - @ 3MHz 1.29 dB/100 ft
  - @ 6 MHz 1.65 dB/100 ft
- DC Resistance 27.2 ohms/K ft

Bonded Shield

Part Number	AWG	Pair Count	Jacket Color	Insulated OD in/mm	Jacket Wall in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/ Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual][a]	Nom. Cap. pF/ft [Grounded][b]
6201	24	1	Violet	.060/1.52	.028/.71	.179/4.55	24	-20/60	17.0	13	23
6202	24	1	Blue	.060/1.52	.028/.71	.179/4.55	24	-20/60	17.0	13	23
6203	24	1	White	.060/1.52	.028/.71	.179/4.55	24	-20/60	17.0	13	23

**Consult factory for other jacket colors.*

a = Capacitance between 2 Blue conductors tied together and 2 White conductors tied together.

b = Capacitance between 2 like-colored conductors and other conductors connected to the shield.

SignalGuard™ 600V-Trol® Electronic Control
22-14 AWG Multiconductor

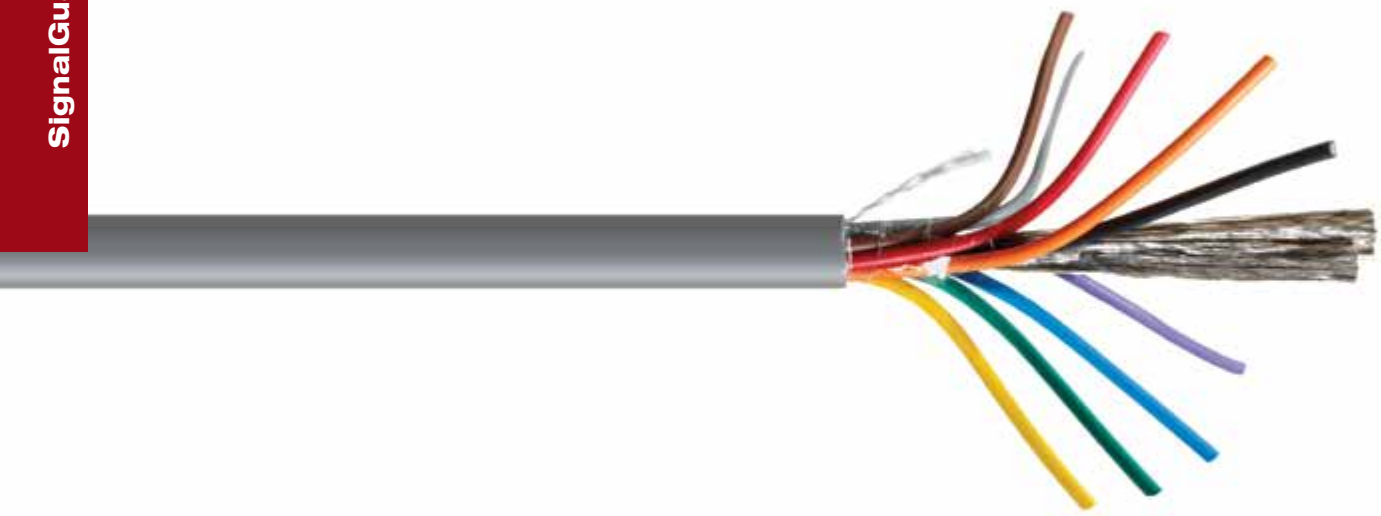
Construction
- 22-14 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket
- Ripcord
- Sunlight Resistant Jacket
- Design 60% Smaller than the Competition
- Color Code Table F

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 600V per AWM Style
- CSA AWM I/II A/B FT4
- UL AWM Style 2586
- VW-1 Flame Test

Unshielded

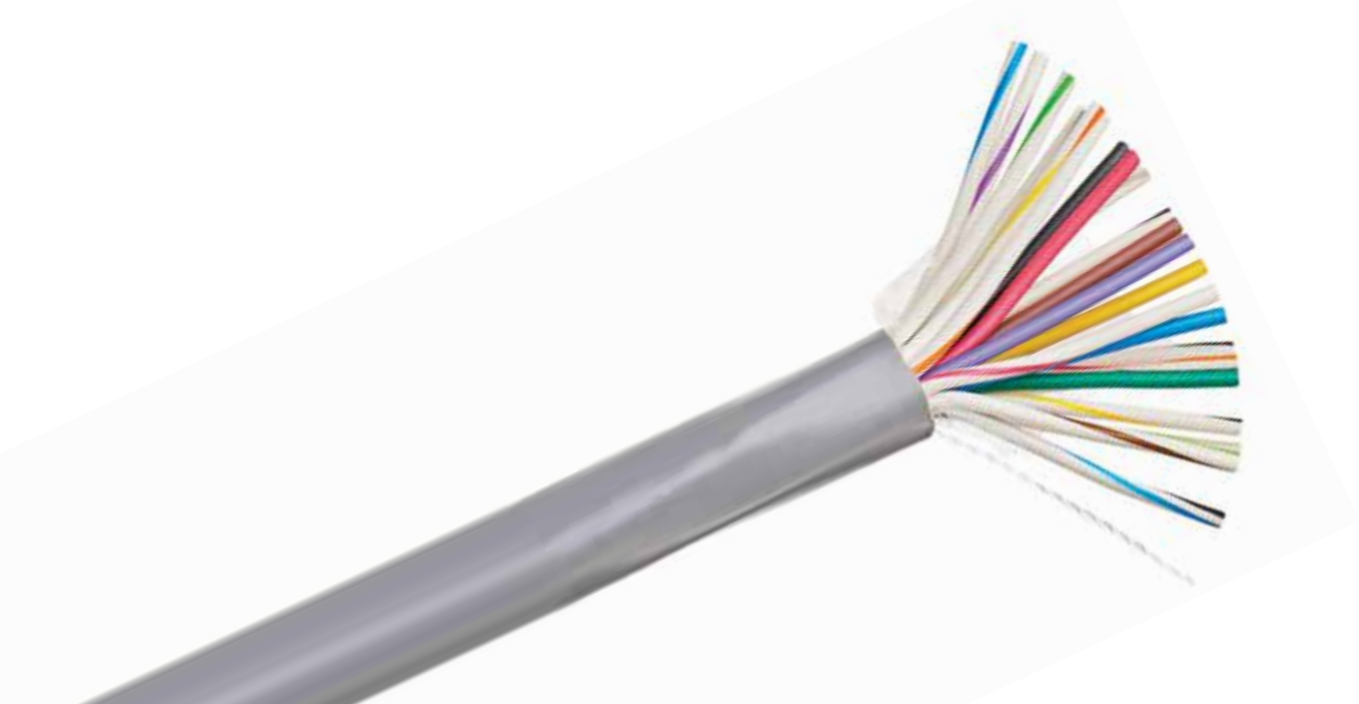
Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]
0701	22	7/30	2	.062/1.57	.191/4.85	-20/105	18.7	17
0703	22	7/30	4	.062/1.57	.217/5.51	-20/105	27.1	17
0704	22	7/30	5	.062/1.57	.234/5.94	-20/105	32.3	17
0706	22	7/30	9	.062/1.57	.293/7.44	-20/105	51.4	17
0709	22	7/30	19	.062/1.57	.377/9.58	-20/105	93.1	17
0712	20	7/28	3	.070/1.78	.217/5.51	-20/105	27.0	21
0713	20	7/28	4	.070/1.78	.236/5.99	-20/105	33.3	21
0715	20	7/28	7	.070/1.78	.277/7.04	-20/105	51.2	21
0716	20	7/28	9	.070/1.78	.322/8.18	-20/105	65.1	21
0717	20	7/28	12	.070/1.78	.350/8.89	-20/105	81.2	21
0718	20	7/28	15	.070/1.78	.395/10.03	-20/105	99.8	21
0719	20	7/28	19	.070/1.78	.417/10.59	-20/105	121.0	21
0720	20	7/28	25	.070/1.78	.498/12.65	-20/105	157.0	21
0721	18	16/30	2	.077/1.96	.221/5.61	-20/105	26.6	25
0722	18	16/30	3	.077/1.96	.233/5.92	-20/105	34.7	25
0723	18	16/30	4	.077/1.96	.253/6.43	-20/105	41.2	25
0724	18	16/30	5	.077/1.96	.275/6.99	-20/105	52.2	25
0725	18	16/30	7	.077/1.96	.298/7.57	-20/105	64.6	25
0726	18	16/30	9	.077/1.96	.348/8.84	-20/105	83.1	25
0728	18	16/30	15	.077/1.96	.428/10.87	-20/105	128.0	25



Customized Solutions to Fit Your Business

Every business has unique needs. That is why we offer tailored solutions, including custom packaging and design options, to ensure our products align perfectly with your operational requirements.

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]
0729	18	16/30	19	.077/1.96	.452/11.48	-20/105	156.0	25
0730	18	16/30	25	.077/1.96	.541/13.74	-20/105	205.5	25
0733	16	19/.0117	4	.089/2.26	.282/7.16	-20/105	56.9	28
0734	16	19/.0117	5	.089/2.26	.307/7.80	-20/105	69.5	28
0735	16	19/.0117	7	.089/2.26	.334/8.48	-20/105	91.0	28
0736	16	19/.0117	9	.089/2.26	.392/9.96	-20/105	116.5	28
0737	16	19/.0117	12	.089/2.26	.437/11.10	-20/105	148.8	28
0738	16	19/.0117	15	.089/2.26	.484/12.29	-20/105	183.0	28
0739	16	19/.0117	19	.089/2.26	.512/13.00	-20/105	225.0	28
0740	16	19/.0117	25	.089/2.26	.654/16.61	-20/105	318.0	28
0741	14	41/30	2	.102/2.59	.271/6.88	-20/105	47.5	31
0742	14	41/30	3	.102/2.59	.286/7.26	-20/105	66.2	31
0743	14	41/30	4	.102/2.59	.314/7.98	-20/105	79.4	31
0744	14	41/30	5	.102/2.59	.342/8.69	-20/105	98.0	31
0745	14	41/30	7	.102/2.59	.373/9.47	-20/105	129.0	31
0746	14	41/30	9	.102/2.59	.439/11.15	-20/105	172.0	31
0747	14	41/30	12	.102/2.59	.480/12.19	-20/105	213.1	31
0748	14	41/30	15	.102/2.59	.545/13.84	-20/105	274.0	31
0750	14	41/30	25	.102/2.59	.734/18.64	-20/105	454.2	31



SignalGuard™ 600V-Trol® Electronic Control
22-14 AWG Multiconductor

Construction
- 22-14 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket
- Ripcord
- Sunlight Resistant Jacket
- Design 60% Smaller than the Competition
- Color Code Table F

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 600V per AWM Style
- CSA AWM I/II A/B FT4
- UL AWM Style 2586
- VW-1 Flame Test

Foil Shielded

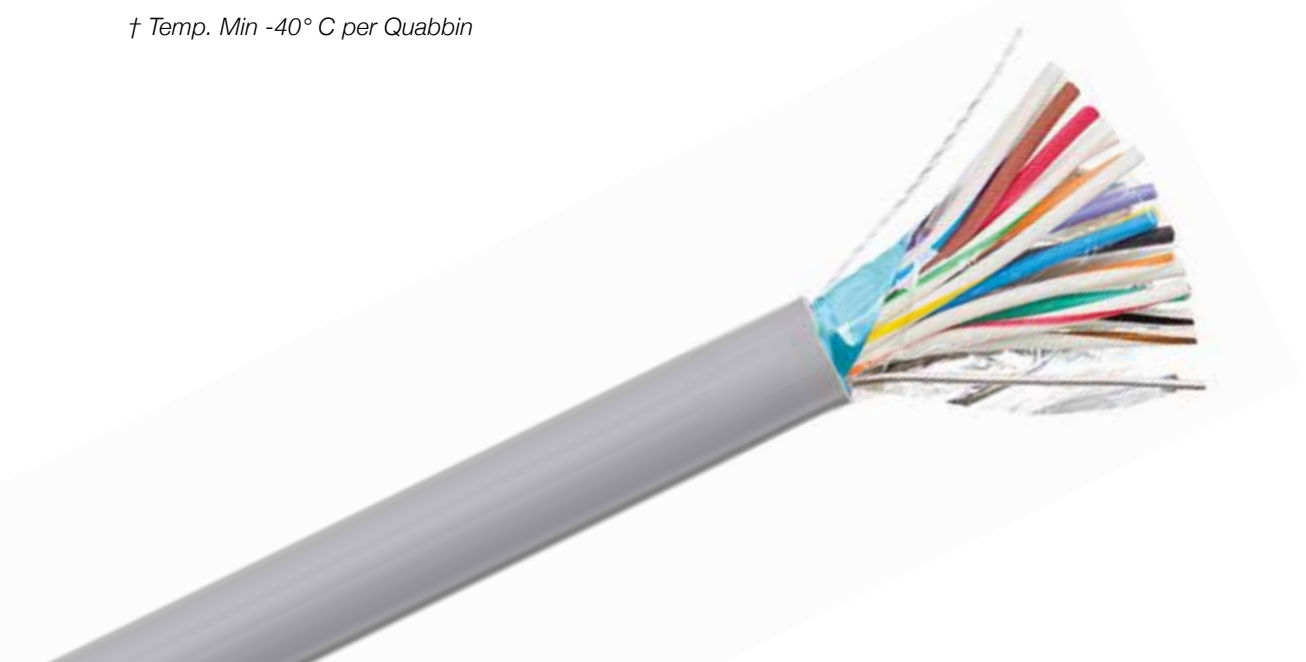
Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
0801	22	7/30	2	.062/1.57	.194/4.93	22	-20/105	20.4	30	55	†
0802	22	7/30	3	.062/1.57	.203/5.16	22	-20/105	24.2	31	57	
0803	22	7/30	4	.062/1.57	.225/5.72	22	-20/105	29.1	28	51	
0804	22	7/30	5	.062/1.57	.246/6.25	22	-20/105	34.8	28	51	
0805	22	7/30	7	.062/1.57	.259/6.58	22	-20/105	43.6	26	48	
0806	22	7/30	9	.062/1.57	.307/7.80	22	-20/105	52.9	26	48	
0807	22	7/30	12	.062/1.57	.321/8.15	22	-20/105	67.0	26	48	
0811	20	7/28	2	.070/1.78	.210/5.33	20	-20/105	70.9	30	54	
0812	20	7/28	3	.070/1.78	.221/5.61	20	-20/105	31.3	27	50	
0813	20	7/28	4	.070/1.78	.247/6.27	20	-20/105	38.0	30	54	
0814	20	7/28	5	.070/1.78	.273/6.93	20	-20/105	45.9	30	54	†
0815	20	7/28	7	.070/1.78	.280/7.11	20	-20/105	58.0	30	54	
0816	20	7/28	9	.070/1.78	.341/8.66	20	-20/105	70.6	30	54	
0817	20	7/28	12	.070/1.78	.372/9.45	20	-20/105	87.0	21	39	
0821	18	16/30	2	.077/1.96	.224/5.69	18	-20/105	31.8	28	51	
0822	18	16/30	3	.077/1.96	.236/5.99	18	-20/105	38.9	30	55	
0823	18	16/30	4	.077/1.96	.272/6.91	18	-20/105	52.2	26	49	
0824	18	16/30	5	.077/1.96	.294/7.47	18	-20/105	57.1	25	46	
0825	18	16/30	7	.077/1.96	.321/8.15	18	-20/105	71.8	24	45	
0826	18	16/30	9	.077/1.96	.372/9.45	18	-20/105	90.4	23	43	
0827	18	16/30	12	.077/1.96	.405/10.29	18	-20/105	111.5	23	42	
0828	18	16/30	15	.077/1.96	.431/10.95	18	-20/105	141.0	23	42	
0829	18	16/30	19	.077/1.96	.476/12.09	18	-20/105	183.0	22	41	
0830	18	16/30	25	.077/1.96	.544/13.82	18	-20/105	212.2	27	50	

Reliable Quality, Proven Value

For five decades, we've built our reputation on delivering high-quality wire and cable products that provide consistent value. Our products are 100% made in the USA, offering you a reliable, long-term solution that meets your business needs.

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
0831	16	19/.0117	2	.089/2.26	.248/6.30	16	-20/105	43.6	47	87	
0832	16	19/.0117	3	.089/2.26	.276/7.01	16	-20/105	55.1	32	59	
0833	16	19/.0117	4	.089/2.26	.304/7.72	16	-20/105	67.1	29	55	
0834	16	19/.0117	5	.089/2.26	.336/8.53	16	-20/105	71.4	42	75	
0835	16	19/.0117	7	.089/2.26	.365/9.27	16	-20/105	102.0	34	64	
0836	16	19/.0117	9	.089/2.26	.394/10.01	16	-20/105	124.3	26	48	
0837	16	19/.0117	12	.089/2.26	.426/10.82	16	-20/105	163.0	26	48	
0838	16	19/.0117	15	.089/2.26	.483/12.27	16	-20/105	199.0	26	48	
0839	16	19/.0117	19	.089/2.26	.510/12.95	16	-20/105	243.0	26	48	
0840	16	19/.0117	25	.089/2.26	.651/16.54	16	-20/105	339.0	26	48	
0841	14	41/30	2	.102/2.59	.274/6.96	14	-20/105	63.0	32	60	†
0842	14	41/30	3	.102/2.59	.289/7.34	14	-20/105	79.0	32	60	†
0843	14	41/30	4	.102/2.59	.343/8.71	14	-20/105	95.1	32	60	†
0844	14	41/30	5	.102/2.59	.381/9.68	14	-20/105	115.1	41	75	†
0845	14	41/30	7	.102/2.59	.376/9.55	14	-20/105	143.0	30	55	†
0846	14	41/30	9	.102/2.59	.442/11.23	14	-20/105	187.0	30	55	†
0847	14	41/30	12	.102/2.59	.483/12.27	14	-20/105	237.0	30	55	†
0848	14	41/30	15	.102/2.59	.548/13.92	14	-20/105	279.0	27	50	
0849	14	41/30	19	.102/2.59	.620/15.75	14	-20/105	379.0	27	50	†
0850	14	41/30	25	.102/2.59	.737/18.72	14	-20/105	488.0	27	50	†

† Temp. Min -40° C per Quabbin



SignalGuard™ Electronic Control
18-12 AWG Multiconductor

Construction
- 18-12 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 600V per AWM Style*
- CSA AWM I/II A/B FT4*

Unshielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	NEC Type	UL AWM Style	Color Code Table	Notes
4090	18	16/30	2	.077/1.96	.218/5.54	-20/90	25.8	25	CM, CMG	2464	E	Voltage Rating Max 300V, No CSA AWM I/II A/B FT4
4140	18	7/26	2	.080/2.03	.210/5.334	-20/90	23.6	15	CM	2095	A	Voltage Rating Max 300V
3100	16	19/.0117	4	.089/2.26	.279/7.087	-20/90	56.2	26	CL2	2464	A	Voltage Rating Max 300V
3130	16	19/.0117	2	.103/2.62	.270/6.858	-20/90	37.6	15	CM	2598	A	Voltage Rating Max 300V
4100	18	16/30	4	.077/1.96	.245/6.22	-20/105	40.6	25	CM	2464, 2586	A	
4105	18	16/30	5	.077/1.96	.272/6.91	-20/105	49.2	25	CM	2464, 2586	A	
4110	18	16/30	6	.077/1.96	.295/7.49	-20/105	63.7	25	CM	2464, 2586	A	
4115	18	16/30	9	.077/1.96	.348/8.84	-20/105	91.4	25	CM	2464, 2586	A	
4120	18	16/30	12	.077/1.96	.385/9.78	-20/105	106.0	25	CM	2464, 2586	B	
4125	18	16/30	15	.077/1.96	.444/11.28	-20/105	134.1	25	CM	2464, 2586	B	
4130	18	16/30	19	.077/1.96	.465/11.81	-20/105	163.2	25	CM	2464, 2586	B	
4135	18	16/30	25	.077/1.96	.546/13.87	-20/105	235.3	25	CM	2464, 2586	B	
2100	14	41/30	4	.134/3.40	.414/10.52	-20/105	107.0	19	CL3	2463	B	VW-1 Flame Test
2105	14	19/.0147	5	.136/3.45	.457/11.61	-20/105	137.0	26	CL3	2463	B	
2110	14	41/30	7	.138/3.51	.498/12.65	-20/105	181.0	20	CL3	2463	B	
2115	14	19/.0147	2	.134/3.40	.332/8.43	-20/105	59.4	20	CL3	2463	A	
1100	12	19/.0185	2	.152/3.86	.388/9.86	-20/105	80.6	21	PLTC	2463	A	

** Unless noted otherwise in Notes column*

SignalGuard™ Electronic Control
20-18 AWG Multiconductor

Construction
- 20-18 AWG Stranded Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket*
- Color Code Table A*

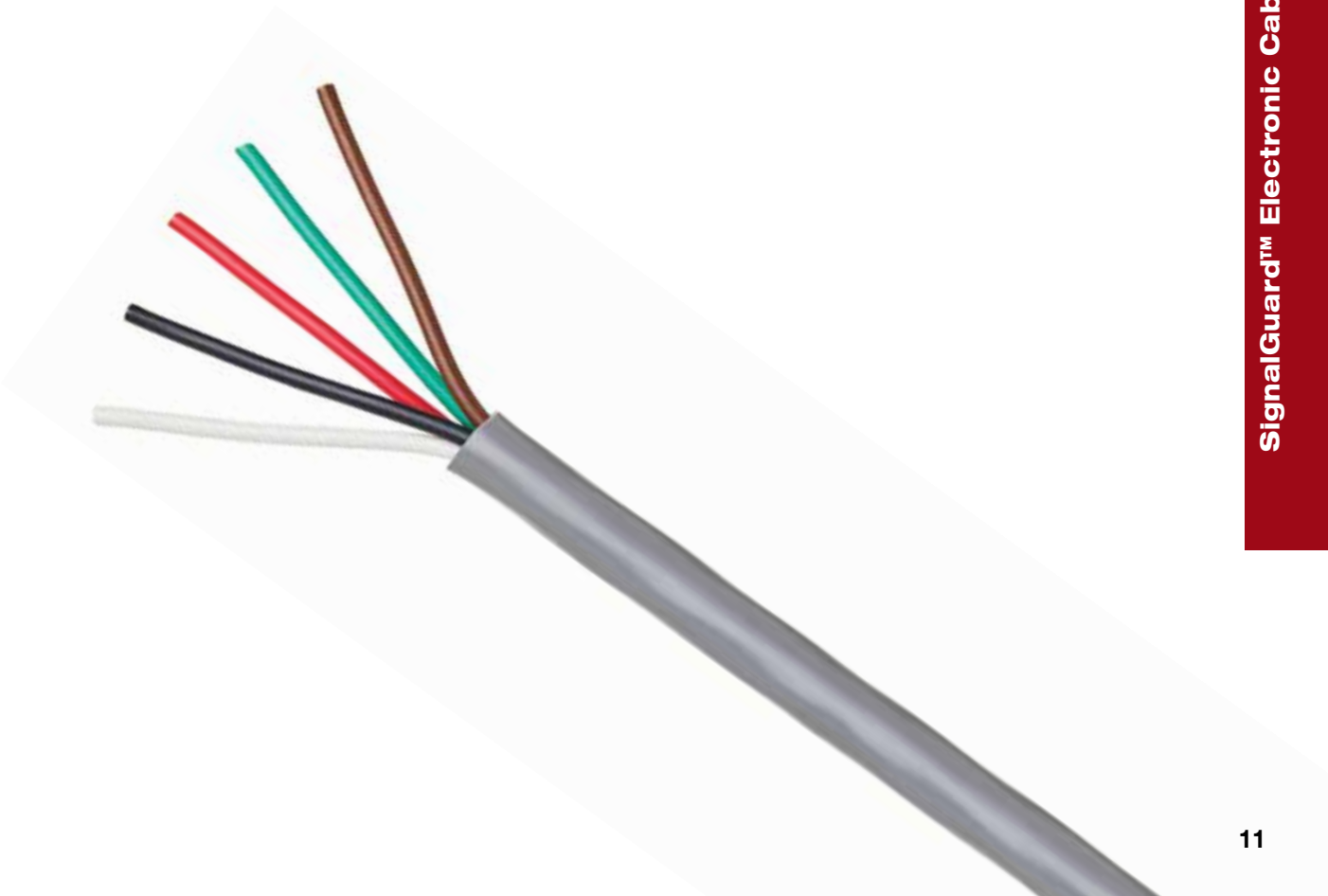
Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4*
- UL AWM Style 2464*

Unshielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Notes
6100	20	7/28	4	.064/1.63	.219/5.56	-20/80	30.1	26	
6101	20	7/28	7	.064/1.63	.256/6.50	-20/80	47.4	26	Black Jacket
6105	20	7/28	5	.064/1.63	.237/6.02	-20/80	35.9	26	
6110	20	7/28	7	.064/1.63	.256/6.50	-20/80	47.4	26	
6115	20	7/28	9	.064/1.63	.304/7.72	-20/80	60.1	26	
6120	20	7/28	12	.064/1.63	.330/8.38	-20/80	75.7	24	
6125	20	7/28	15	.064/1.63	.370/9.40	-20/80	92.6	26	Color Code Table B
0511	18	7/26	2	.068/1.73	.176/4.47	-20/60	19.1	16	No CSA AWM I/II A/B FT4, No UL AWM Style 2464
4560	18	16/30	2	.071/1.80	.206/5.23	-20/80	23.2	30	Color Code Table C

** Unless noted otherwise in Notes column*



SignalGuard™ Electronic Control
22 AWG Multiconductor

Construction
- 22 AWG Solid Bare Copper
- HDPE Insulation
- PVC Chrome Gray Jacket

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CMG

Unshielded

Part Number	AWG	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	UL AWM Style	Color Code
7100	22	2	.057/1.46	.160/4.06	-20/60	12.0	15	2092	Red, Grn
7105	22	3	.057/1.46	.168/4.27	-20/60	19.0	12	2093	Grn, Red, Yel
7110	22	4	.057/1.46	.173/4.39	-20/60	21.0	12	2094	Grn, Red, Yel, Blk

Tailored Solutions for Complex Projects

Every engineering project has its unique challenges. We offer customized design options and packaging solutions to ensure that our products meet your exact specifications. Our tailored approach means you get what you need, precisely how you need it.

SignalGuard™ Electronic Control
24-12 AWG Multiconductor

Construction
- 24-12 AWG Stranded Tinned Copper
- HDPE Insulation
- PVC Chrome Gray Jacket
- Color Code
  - 2 Cond.: Clear, Black
  - 3 Cond.: Clear, Black, Red

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V*
- CM*
- CMG*

Foil Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	UL AWM Style	Notes
8100	24	7/32	2	.056/1.42	.165/4.19	24	-20/75	13.7	22	42	2092	Nom. Imped. 70 ohms
7320	22	7/30	2	.062/1.57	.177/4.50	24	-20/75	16.0	22	40	2092	Foil and Drain Wire Facing In
7325	22	7/30	3	.062/1.57	.186/4.72	22	-20/75	20.7	23	41	2093	
6140	20	7/28	2	.070/1.78	.199/5.05	20	-20/75	23.3	27	51	2092	
6145	20	7/28	3	.070/1.78	.209/5.31	20	-20/75	28.8	27	51	2093	No CM
4164	18	7/.0152	2	.070/1.78	.175/4.45	20	-20/75	23.0	30	55		No CM
4165	18	16/30	2	.087/2.21	.233/5.92	20	-20/75	28.9	25	47	2092	
4170	18	16/30	3	.081/2.06	.235/5.97	20	-20/75	37.4	25	46	2093	
3135	16	19/.0117	2	.121/3.07	.309/7.85	18	-20/75	48.4	22	45	2106	Voltage Rating Max 600V per AWM Style
3140	16	19/.0117	3	.121/3.07	.327/8.31	18	-20/60	61.5	24	48	2107	Voltage Rating Max 600V per AWM Style
2120	14	41/30	2	.134/3.40	.341/8.66	16	-20/75	65.9	24	44	2463	Voltage Rating Max 600V per AWM Style, CSA AWM I/II A/B FT4, No CMG
1105	12	19/.0185	2	.158/4.01	.399/10.13	14	-20/80	94.5	23	47	2463	Voltage Rating Max 600V per AWM Style, No CMG

** Unless noted otherwise in Notes column*

SignalGuard™ Electronic Control
22 AWG Multiconductor

Construction
- 22 AWG Solid or Stranded Tinned Copper
- Polypropylene Insulation
- PVC Chrome Gray Pressure Extruded Jacket*
- Color Code: Black, Red

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- UL AWM Style 20093

Foil Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms	Notes
7310	22	Solid	2	.043/1.09	.125/3.18	22	-20/60	12.2	33	65	50	
7315	22	7/30	2	.048/1.22	.135/3.43	22	-20/80	13.2	32	56	48	
7316	22	7/30	2	.048/1.22	.135/3.43	22	-20/80	13.2	32	56	48	Black Jacket

** Unless noted otherwise in Notes column*

SignalGuard™ Electronic Control
22 AWG Multiconductor

Construction
- 22 AWG Solid or Stranded Tinned Copper
- PVC Insulation
- PVC Black Jacket*
- Color Code
  - 2 Cond.: Red, Black
  - 3 Cond.: Red, Black, White

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4
- UL AWM Style 2095

Braid Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Min Shield Cover %	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
7335	22	Solid	2	.057/1.45	.191/4.85	22	90 + drain	-20/90	26.0	30	55	
7340	22	7/30	3	.062/1.57	.209/5.31		70	-20/90	26.9	29	52	Chrome Gray Jacket
7345	22	7/30	2	.062/1.57	.200/5.08	22	86 + drain	-20/90	26.8	49	86	

** Unless noted otherwise in Notes column*

SignalGuard™ Electronic Control
22-18 AWG Multiconductor

Construction
- 22-18 AWG Stranded Tinned Copper*
- Semi-Rigid PVC Insulation*
- PVC Chrome Gray Jacket*
- Foil Shield with Drain Wire
- Color Code Table E*

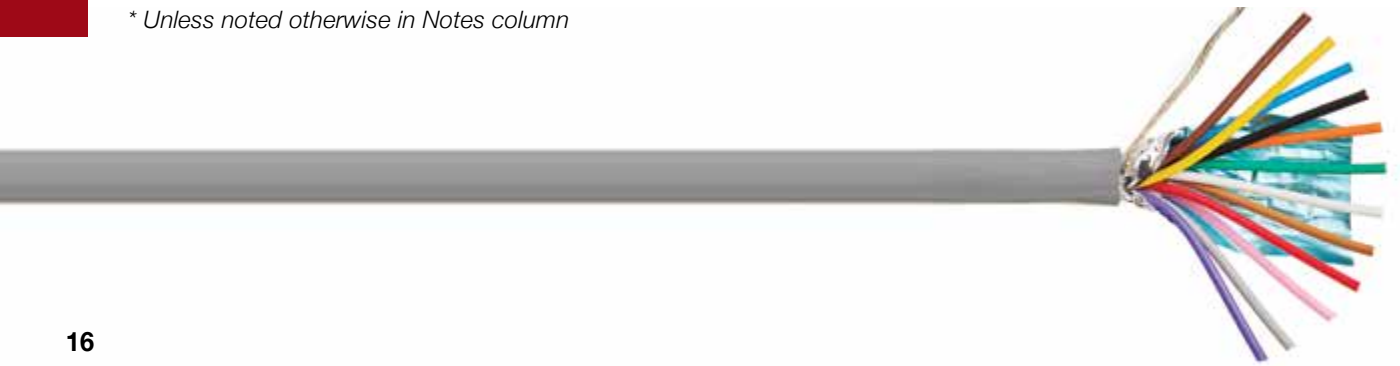
Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V*
- CM*
- CSA AWM I/II A/B FT4*
- UL AWM Style 2464*

Foil Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
4520	22	7/30	2	.056/1.42	.179/4.55	22	-20/80	18.0	44	81	PVC Insulation, Nom. Imped. 48 ohms
7515	22	7/30	2	.050/1.27	.164/4.17	22	-20/80	17.2	37	67	
7516	22	7/30	2	.062/1.57	.167/4.242	22	-20/105	15.5	26	48	PVC Insulation, UL AWM Style 2103, CMG, No UL AWM Style 2464, No CSA AWM I/II A/B FT4
7520	22	7/30	3	.050/1.27	.175/4.45	22	-20/80	20.4	37	67	
7525	22	7/30	4	.050/1.27	.197/5.00	22	-20/80	24.2	41	76	Temp. Min -40°C per Quabbin
7535	22	7/30	6	.050/1.27	.212/5.38	22	-20/80	32.9	37	67	
7540	22	7/30	7	.050/1.27	.217/5.51	22	-20/80	35.7	37	68.5	
7545	22	7/30	8	.050/1.27	.242/6.15	22	-20/80	41.7	37	68.5	Temp. Min -40°C per Quabbin
7555	22	7/30	10	.050/1.27	.252/6.40	22	-20/80	45.3	23	43	
7560	22	7/30	12	.050/1.27	.270/6.86	22	-20/80	55.4	37	68.5	
7565	22	7/30	15	.050/1.27	.295/7.49	22	-20/80	67.9	36	67	
7570	22	7/30	20	.050/1.27	.342/8.69	22	-20/80	76.7	37	68.5	PVC Insulation
7575	22	7/30	25	.050/1.27	.361/9.17	22	-20/80	99.3	26	47	
7580	22	7/30	30	.050/1.27	.397/10.08	22	-20/80	123.4	37	69	
7585	22	7/30	40	.050/1.27	.439/11.15	22	-20/80	163.0	35	63	
7590	22	7/30	50	.050/1.27	.500/12.70	22	-20/80	203.0	35	63	
4530	20	7/28	2	.064/1.63	.195/4.95	22	-20/80	22.1	50	92	Beige Jacket, Nom. Imped. 48 ohms
4174	18	16/30	3	.065/1.65	.206/5.23	20	-20/80	42.0	70	120	Color Code Table A
4175	18	16/30	4	.065/1.65	.235/5.97	20	-20/80	40.5	58	108	Color Code Table A
4177	18	16/30	6	.065/1.65	.259/6.58	20	-20/80	54.1	53	98	Color Code Table A
4178	18	16/30	8	.065/1.65	.284/7.21	20	-20/80	67.6	65	113	Color Code Table A
4179	18	16/30	10	.065/1.65	.307/7.80	20	-20/80	81.1	28	52	Color Code Table A
4181	18	16/30	3	.077/1.96	.232/5.89	20	-20/105	36.8	30	55	Stranded Bare Copper, PVC Insulation, Black Jacket, Color Code Red, Yel, Wht, Voltage Rating Max 600V, UL AWM Style 2586, VW-1 Flame Test, No CM

** Unless noted otherwise in Notes column*



SignalGuard™ Electronic Control
22-18 AWG Multiconductor

Construction
- 22-18 AWG Stranded Tinned Copper
- HDPE Insulation*
- PVC Chrome Gray Pressure Extruded Jacket
- Shield Bonded to Jacket to Reduce Labor at Cable Preparation
- Color Code: Clear, Black*

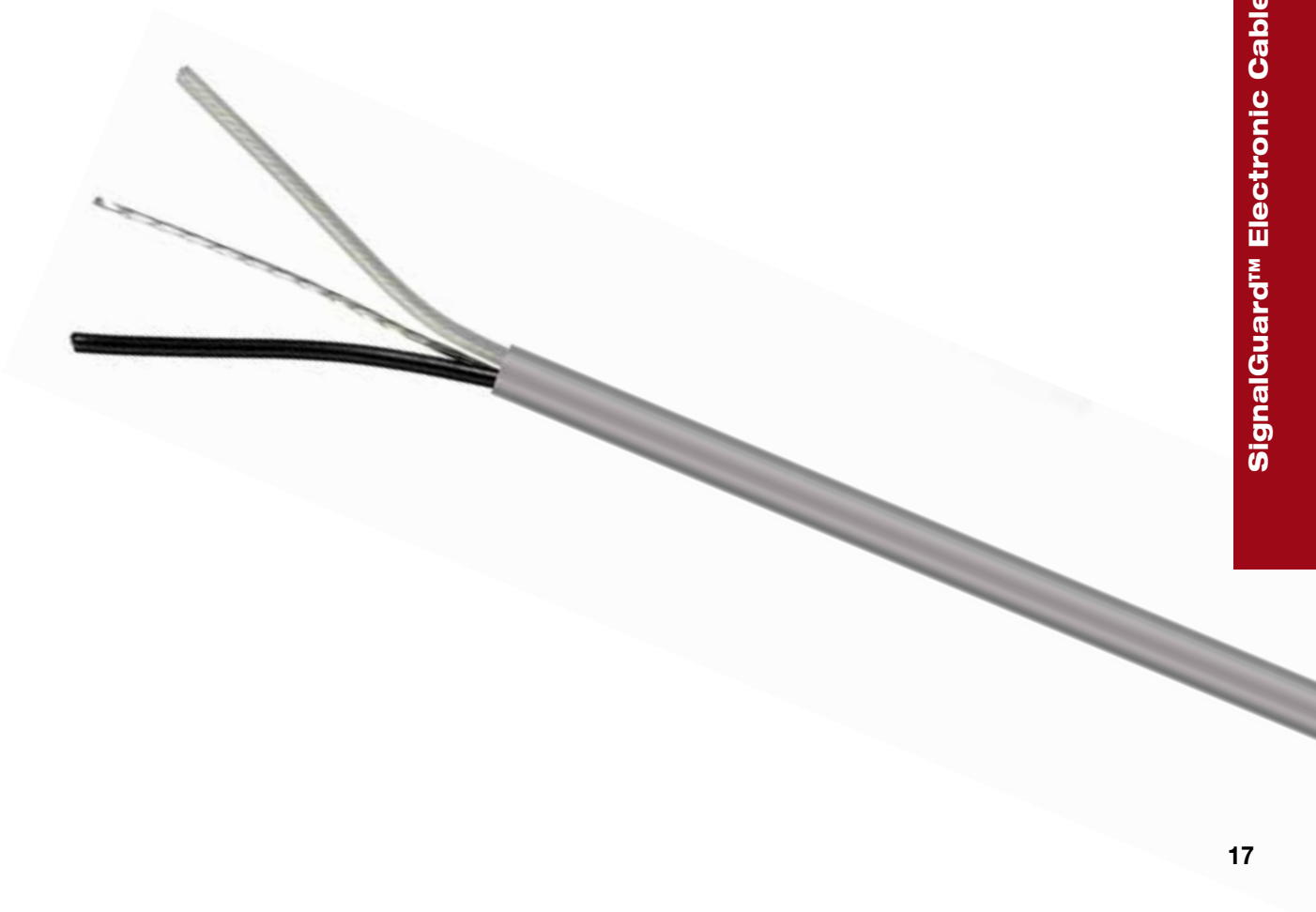
Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM*
- UL AWM Style 2092*

Bonded Shield

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms	Notes
4505	22	7/30	2	.048/1.22	.139/3.53	22	-20/75	14.7	34	67	48	Polypropylene Insulation, Color Code: Black, Red, CMG, CMR, No CM, No UL AWM Style 2092
4510	22	7/30	2	.062/1.57	.179/4.55	22	-20/75	20.1	24	44	73	
4540	20	7/28	2	.070/1.78	.213/5.41	20	-20/75	28.4	26.1	48.5	70	
4550	18	16/30	2	.081/2.06	.213/5.41	20	-20/75	29.0	27	50	68	

** Unless noted otherwise in Notes column*



SignalGuard™ Electronic Control
22-16 AWG Multiconductor

Construction
- 22-16 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket
- Color Code: Black, Red*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4*
- UL AWM Style 2095

Spiral Serve

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Min Shield Cover %	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
7330	22	7/30	2	.060/1.52	.193/4.90	97	-20/90	21	40	70	
6200	20	7/28	2	.070/1.78	.203/5.16	85	-20/90	26	47	79	CMG, No CSA AWM I/II A/B FT4
4180	18	7/26	2	.088/2.24	.245/6.22	85	-20/90	37	53	92	Color Code: Red, Wht
3175	16	19/29	2	.104/2.64	.280/7.11	89	-20/90	47	57	98	Color Code: Blk, Wht

** Unless noted otherwise in Notes column*

Dependability — Delivered on Time

Project timelines are critical. With multiple stocking warehouses throughout the US, we ensure that your materials are locally available and delivered on time, minimizing downtime and keeping your projects on schedule.

SignalGuard™ Electronic Control
22-18 AWG Multipair

Construction
- 22-18 AWG Solid or Stranded Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4 (except PN 7305, which is CSA AWM I/II A/B FT1)
- UL AWM Style 2464

Unshielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]
7200	22	Solid	1	.045/1.14	.154/3.91	-20/80	12.5	25
7205	22	Solid	2	.045/1.14	.197/5.00	-20/80	20.9	25
7210	22	Solid	3	.045/1.14	.245/6.22	-20/80	39.0	25
7215	22	Solid	4	.045/1.14	.263/6.68	-20/80	42.0	25
7220	22	Solid	5	.045/1.14	.271/6.88	-20/80	41.2	24
7225	22	Solid	6	.045/1.14	.300/7.62	-20/80	71.0	24
7227	22	Solid	8	.045/1.14	.294/7.47	-20/80	62.9	24
7230	22	Solid	9	.045/1.14	.350/8.89	-20/80	87.0	24
7235	22	Solid	11	.045/1.14	.385/9.78	-20/80	99.0	24
7238	22	Solid	13	.045/1.14	.395/10.03	-20/80	105.0	24
7240	22	Solid	15	.045/1.14	.426/10.82	-20/80	121.0	24
7245	22	Solid	19	.045/1.14	.465/11.81	-20/80	155.0	24
7250	22	Solid	23	.045/1.14	.505/12.83	-20/80	179.0	24
7255	22	Solid	27	.045/1.14	.550/13.97	-20/80	215.0	24
7260	22	7/30	2	.050/1.27	.227/5.77	-20/80	23.8	26
7265	22	7/30	3	.050/1.27	.220/5.59	-20/80	30.1	20
7270	22	7/30	4	.050/1.27	.257/6.53	-20/80	39.9	15
7275	22	7/30	6	.050/1.27	.319/8.10	-20/80	52.0	15
7280	22	7/30	9	.050/1.27	.382/9.70	-20/80	85.0	15
7285	22	7/30	12	.050/1.27	.397/10.08	-20/80	107.0	15
7290	22	7/30	15	.050/1.27	.468/11.89	-20/80	119.9	15
7295	22	7/30	19	.050/1.27	.478/12.14	-20/80	141.8	15
7300	22	7/30	23	.050/1.27	.555/14.10	-20/80	197.0	15
7305	22	7/30	27	.050/1.27	.633/16.08	-20/80	209.2	15
6130	20	7/28	1	.064/1.63	.192/4.88	-20/80	19.2	26
6135	20	7/28	3	.064/1.63	.264/6.71	-20/80	42.3	26
6136	20	7/28	6	.064/1.63	.384/9.75	-20/80	79.3	26
6137	20	7/28	9	.064/1.63	.420/10.67	-20/80	119.0	17
6138	20	7/28	15	.064/1.63	.588/14.94	-20/80	196.9	28
4145	18	16/30	2	.072/1.83	.282/7.16	-20/80	44.5	25
4150	18	16/30	3	.071/1.80	.290/7.37	-20/80	53.8	17
4155	18	16/30	4	.072/1.83	.365/9.27	-20/80	75.3	27
4158	18	16/30	5	.071/1.80	.400/10.16	-20/80	88.9	21
4160	18	16/30	6	.071/1.80	.419/10.64	-20/80	102.1	18

SignalGuard™ Electronic Control
22 AWG Multipair

Construction
- 22 AWG Solid Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4
- UL AWM Style 2464
- VW-1 Flame Test

Individually Shielded Pairs

Part Number	AWG	Pair Count	Insulated OD in/mm	Overall Diameter	Drain Wire(s) AWG °C	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
7380	22	3	.051/1.30	.270/6.86	22	-20/80	39.3	26	48	Temp. Min -40° C per Quabbin
7385	22	6	.051/1.30	.357/9.07	22	-20/80	81.0	26	48	Temp. Min -40° C per Quabbin
7390	22	9	.051/1.30	.430/10.92	22	-20/80	113.0	26	48	Temp. Min -40° C per Quabbin
7392	22	11	.051/1.30	.475/12.07	22	-20/80	143.0	26	48	Temp. Min -40° C per Quabbin
7394	22	15	.051/1.30	.529/13.44	22	-20/80	190.0	26	48	Temp. Min -40° C per Quabbin

Overall Foil Shielded

Part Number	AWG	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
7350	22	2	.051/1.30	.220/5.59	22	-20/80	26.9	35	50
7355	22	4	.051/1.30	.276/7.01	22	-20/80	40.3	35	50
7360	22	6	.051/1.30	.319/8.10	22	-20/80	66.0	23	40
7365	22	9	.051/1.30	.361/9.17	22	-20/80	81.3	23	40
7370	22	15	.051/1.30	.450/11.43	22	-20/80	147.0	23	40
7372	22	19	.051/1.30	.488/12.40	22	-20/80	152.9	23	40
7375	22	27	.051/1.30	.600/15.24	22	-20/80	247.0	23	40

SignalGuard™ Electronic Control
22-18 AWG Multipair

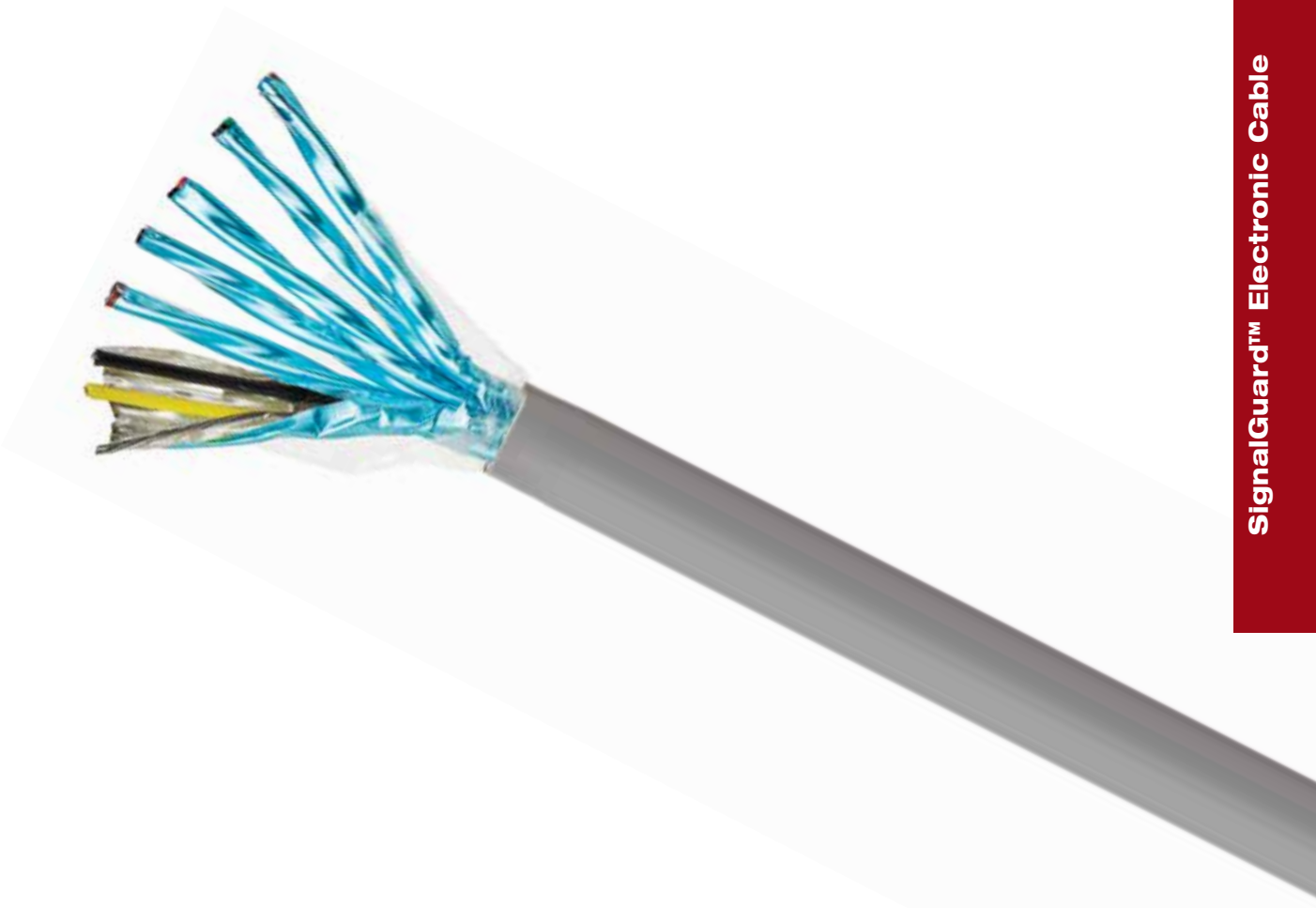
Construction
- 22-18 AWG Stranded Tinned Copper
- HDPE Insulation
- PVC Chrome Gray Jacket
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- UL AWM Style 2919

Individually Shielded Pairs

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
7405	22	7/30	6	.054/1.37	.372/9.45	22	-20/80	75.0	30	55
7415	22	7/30	11	.054/1.37	.480/12.19	22	-20/80	126.2	30	55
7435	22	7/30	19	.054/1.37	.616/15.65	22	-20/80	228.6	30	55
7445	22	7/30	37	.054/1.37	.889/22.58	22	-20/80	442.0	30	55
6169	20	7/28	15	.064/1.63	.662/16.81	22	-20/80	259.7	30	55
4195	18	16/30	9	.077/1.96	.622/15.80	20	-20/80	210.8	28	53
4205	18	16/30	15	.075/1.91	.759/19.28	20	-20/80	399.0	28	53



SignalGuard™ Electronic Control
22-18 AWG Multipair

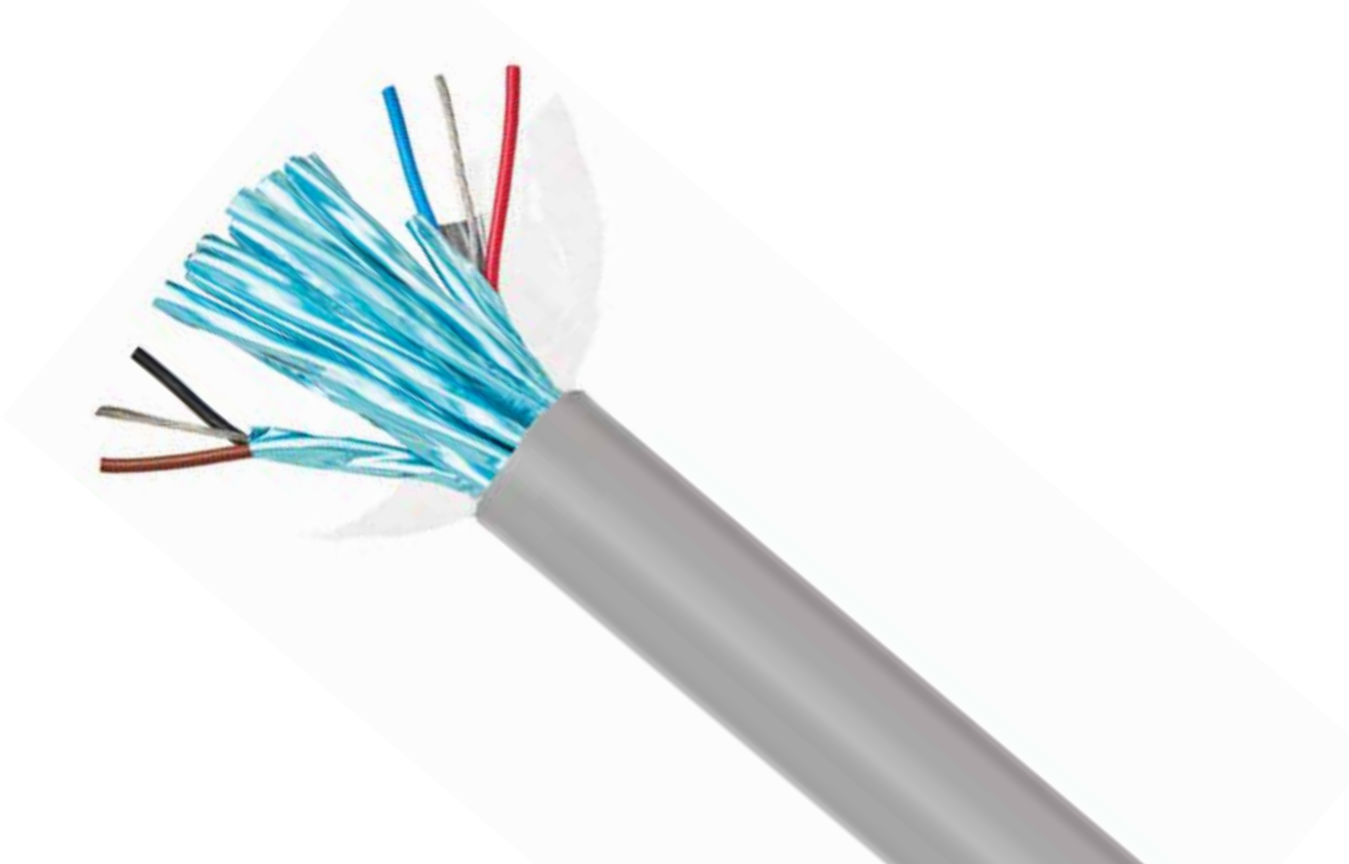
Construction
- 22-18 AWG Stranded Tinned Copper
- HDPE Insulation
- PVC Chrome Gray Jacket
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- UL AWM Style 2919

Individually Shielded Pairs

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
7410	22	7/30	9	.054/1.37	.440/11.18	22	-20/80	104.0	30	55
7420	22	7/30	12	.054/1.37	.496/12.60	22	-20/80	134.4	30	55
7425	22	7/30	15	.054/1.37	.574/14.58	22	-20/80	185.0	30	55
7430	22	7/30	17	.054/1.37	.612/15.54	22	-20/80	203.1	30	55
7440	22	7/30	27	.054/1.37	.740/18.80	22	-20/80	303.5	30	55
6155	20	7/28	3	.064/1.63	.325/8.26	22	-20/80	54.5	30	55
6160	20	7/28	6	.064/1.63	.439/11.15	22	-20/80	104.4	30	55
6165	20	7/28	9	.064/1.63	.485/12.32	22	-20/80	160.0	30	55
6166	20	7/28	11	.064/1.63	.570/14.48	22	-20/80	184.0	30	55
6167	20	7/28	12	.064/1.63	.608/15.44	22	-20/80	196.0	30	55
4185	18	16/30	3	.075/1.91	.379/9.63	20	-20/80	77.4	28	53
4190	18	16/30	6	.075/1.91	.523/13.28	20	-20/80	150.1	28	53
4200	18	16/30	12	.075/1.91	.695/17.65	22	-20/80	267.0	28	53



SignalGuard™ Electronic Control
24 AWG Multipair

Construction
- 24 AWG Stranded Tinned Copper
- Foamed Polypropylene Insulation
- PVC Chrome Gray Jacket
- Color Code Table G

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- UL AWM Style 2919

Foil & Braid Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms
8776	24	7/32	4	.050/1.27	.279/7.09	24	-20/80	43.3	12.5	22	110
8780	24	7/32	8	.050/1.27	.381/9.68	24	-20/80	71.4	12	22	100
8782	24	7/32	12	.050/1.27	.433/11.00	24	-20/80	93.3	12	22	120

Decades of Trust, Built on Experience

Since 1975, we've been providing wire and cable solutions that businesses like yours can rely on. Our deep industry experience and commitment to excellence mean that you're partnering with a company that understands your challenges and delivers solutions you can trust.

SignalGuard™ Electronic Control Transducer
24-18 AWG Multiconductor and Multipair

Construction
- 24-18 AWG Stranded Tinned Copper
- Insulation as Shown Below
- PVC Chrome Gray Jacket*
- Shield(s) as Shown Below

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V*

Foil & Braid Shielded

Part Number	AWG	Stranding	Cond. Count	Pair Count	Insulation Type	Insulated OD in/mm	Shield	Overall Diameter in/mm	Drain Wire(s) AWG	
0356	24	7/32	3	1	LDPE	.060/1.52	Foil Shielded Pair(s) with Drain/ Overall Braided Shield	.219/5.56	24	
0357	22	7/30	3	1	LDPE	.074/1.88	Foil Shielded Pair(s) with Drain/ Overall Braided Shield	.249/6.32	22	
7395	22	7/30	4	2	Polypropylene	.046/1.17	Foil Shielded Pair(s) with Drain	.165/4.19	24	
7400	22	7/30		3	Polypropylene	.050/1.27	Foil Shielded Pair(s)/ Overall Polyester Binder	.268/6.81	22	
7450	22	7/30	3	1	PVC	.056/1.42	Foil Shielded Pair(s) with Drain	.186/4.72	22	
7455	22	7/30	4	2	Polypropylene	.050/1.27	Foil Shielded Pair(s) with Drain/ Overall Foil Shield with Drain	.200/5.08	24	
7460	22	7/30		2	HDPE	.047/1.19	Foil Shielded Pair(s) with Drain/ Unshielded Pair	.195/4.95	24	
7465	22	7/30	4	2	HDPE	.047/1.19	Foil Shielded Pair(s) with Drain	.168/4.27	24	
0358	20	7/28	3	1	LDPE	.094/2.39	Foil Shielded Pair(s) with Drain/ Overall Braided Shield	.292/7.42	20	
6151	20	7/28		2	Semi-rigid PVC	.058/1.47	Foil Shielded Pair(s) with Drain	.225/5.72	22	
6180	20	7/28	3	1	HDPE	.066/1.68	Foil Shielded Pair(s) with Drain	.205/5.21	22	
6185	20	7/28	4	2	PVC	.068/1.73	Foil Shielded Pair(s) with Drain	.223/5.66	22	
6205	20	7/28	2		LDPE	.080/2.03	Foil Shield Pair(s) with Drain/ Overall Braided Shield	.250/6.35	22	
0105	20	7/28	2	1	HDPE	.074/1.88	Foil Shielded Pair(s) with Drain	.253/6.43	22	
	18	16/30	2	1		.081/2.06	Unshielded			

** Unless noted otherwise in Notes column*

	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	NEC, CSA Type	UL AWM Style	Color Code or Table	Notes
	-20/80	28.4	18	33	CM	2448	D	
	-20/80	36.9	18	33	CM	2448	D	
	-20/60	20.3	35	62	CM		1. Black x Red 2. Green x White	Pressure Jacket, Drain Wire Provides Common Termination of Shields, Nom. Imped. 45 ohms
	-20/80	41.3	28	53	CM	2919	C	Nom. Imped. 50 ohms
	-20/80	22.5	60	99	CM, CSA AWM I/II A/B FT4	2464	1. Black x White (Shielded) 2. Brown	
	-20/60	28.0	35	62	CM	20093	1. Black x Red 2. Green x White	Pressure Jacket
	-20/60	22.8	33	58	CM, CMG		1. Black x Red (Shielded) 2. Green x White	
	-20/60	20.2	34	67	CM, CMG		1. Black x Red (Shielded) 2. Green x White	
	-20/80	49.7	18	33	CM	2448	D	
	-20/80	35.2	47	85	CM, CSA AWM I/II A/B FT4	2464	1. Black x Red 2. Green x White	Nom. Imped. 40.5 ohms
	-20/80	25.5	27	50			1. Black x Red Single Conductor: 2. Clear	Voltage Rating Max 350V per Quabbin
	-20/90	30.6	60	99	CM, CSA AWM I/II A/B FT4		1. Black x Red (Shielded) 2. Green x White	Voltage Rating Max 350V per Quabbin
	-20/75	33.4	20	37	CM, CMG		1. Natural 2. Blue	Two Color Coded Singles Twisted Together with Two Poly Rod Fillers, Blue Jacket, Nom. Imped. 78 ohms
	-20/60	44.0	24			2094	1. Blk x Red	Beige Jacket
			22				1. Grn x Wht	

SignalGuard™ Electronic Control Computer, POS System Interconnect

22 AWG Multipair

Construction

- 22 AWG Solid Bare or Tinned Copper
- Polyethylene Insulation
- PVC Black Jacket

Additional Design Options

- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals

- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CMG
- UL AWM Style 2582 (PN 7337, 7338)
- UL AWM Style 2919 (PN 7336)

Foil & Braid Shielded

Part Number	AWG	Solid Copper	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Min. Braid Cover %	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Color Code
7336	22	Bare	2	.055/1.38	.300/7.62	58	22	-20/75	46.0	15.5	27.0	Blue x White/Blue Orange x White/Orange
7337	22	Tinned	2	.055/1.38	.300/7.62	90	22	-20/75	49.0	15.5	27.5	Red x Blue Black x Yellow
7338	22	Tinned	2	.055/1.38	.300/7.62	58	22	-20/75	46.0	15.5	27.0	Red x Blue Yellow x Black

A Legacy of Engineering Excellence

Since 1975, we've been committed to providing wire and cable solutions that meet the high standards of the engineering community. Our decades of experience allow us to anticipate your needs and deliver products that perform as expected in demanding applications.

SignalGuard™ Serial Communication
24 AWG Multiconductor RS-232

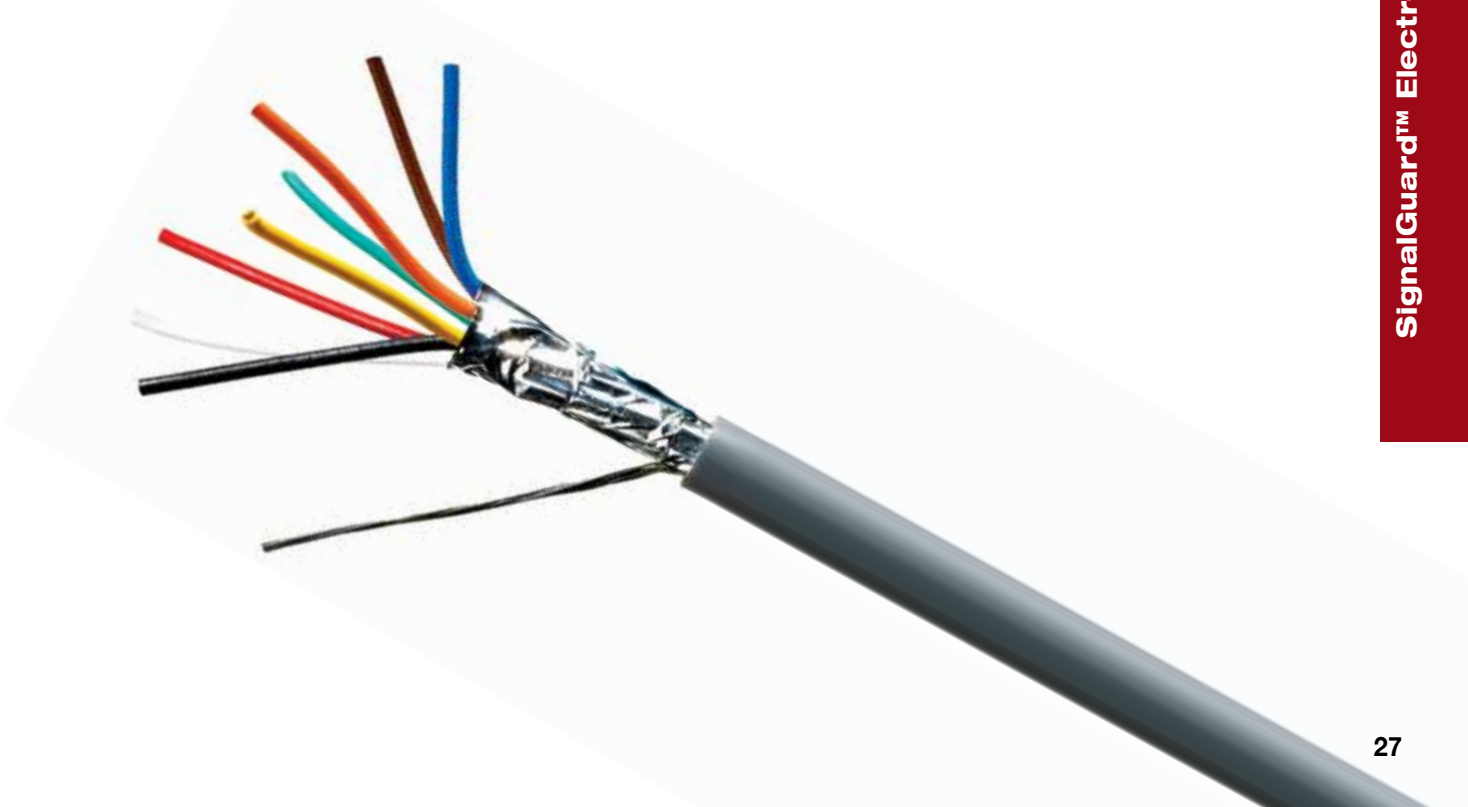
Construction
- 24 AWG Stranded Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket
- Color Code Table A

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4
- UL AWM Style 2464

Foil Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
8170	24	7/32	4	.044/1.12	.180/4.57	24	-20/80	18.8	33	65
8175	24	7/32	5	.044/1.12	.195/4.95	24	-20/80	22.3	33	65
8190	24	7/32	8	.044/1.12	.222/5.64	24	-20/80	29.5	33	65
8195	24	7/32	9	.044/1.12	.235/5.97	24	-20/80	34.6	33	65
8200	24	7/32	10	.044/1.12	.237/6.02	24	-20/80	34.6	30	55
8205	24	7/32	15	.044/1.12	.280/7.11	24	-20/80	48.2	30	55
8210	24	7/32	20	.044/1.12	.305/7.75	24	-20/80	60.2	30	55
8215	24	7/32	25	.044/1.12	.340/8.64	24	-20/80	80.4	30	55
8216	24	7/32	30	.044/1.12	.380/9.65	24	-20/80	87.1	30	55
8220	24	7/32	37	.044/1.12	.398/10.11	24	-20/80	109.7	30	55
8225	24	7/32	50	.044/1.12	.456/11.58	24	-20/80	133.7	30	55
8165	24	7/32	3	.044/1.12	.162/4.11	24	-20/80	15.7	33	65
8180	24	7/32	6	.044/1.12	.199/5.05	24	-20/80	24.0	33	65
8185	24	7/32	7	.044/1.12	.199/5.05	24	-20/80	26.0	33	65
8202	24	7/32	12	.044/1.12	.251/6.38	24	-20/80	40.3	30	55
8223	24	7/32	40	.044/1.12	.413/10.49	24	-20/80	110.0	30	55



SignalGuard™ Serial Communication
22 AWG Multiconductor RS-232

Construction
- 22 AWG 7/30 Stranded Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4*
- UL AWM Style 2464
- VW-1 Flame Test

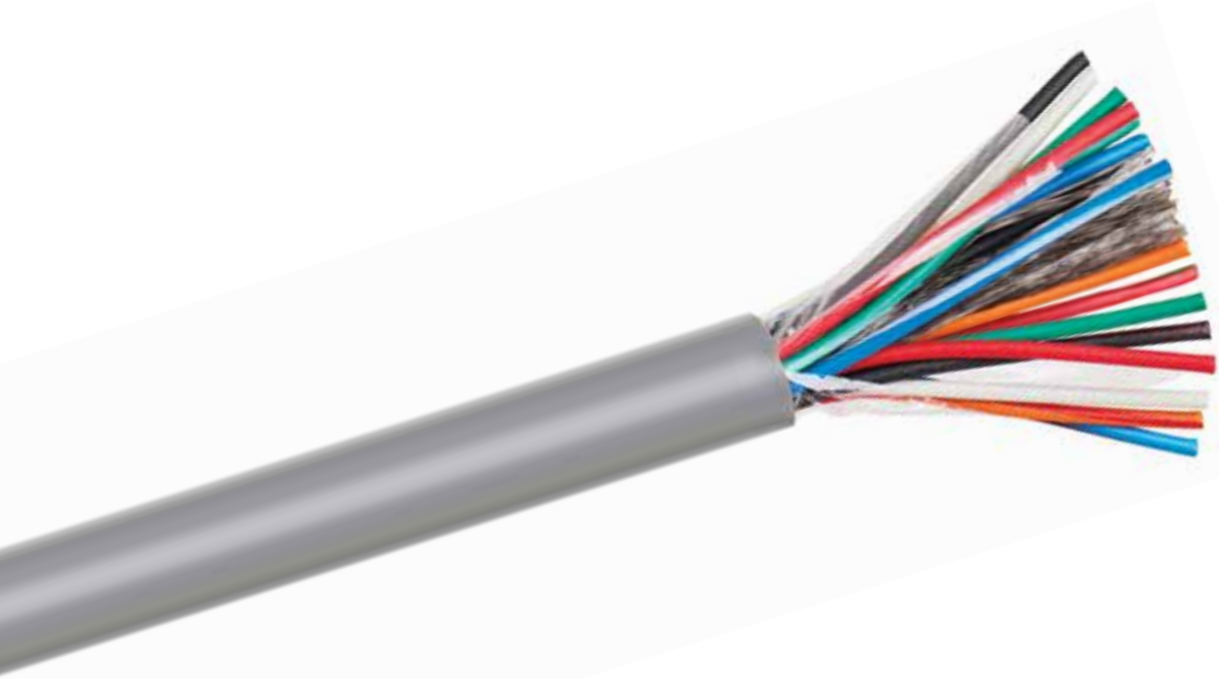
Unshielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Color Code or Table	Notes
7115	22	7/30	2	.050/1.27	.164/4.17	-20/80	13.9	20	E	
7116	22	7/30	2	.050/1.27	.164/4.17	-20/80	13.9	20	E	Black Jacket
7117	22	7/30	2	.050/1.27	.164/4.17	-20/80	13.9	20	E	White Jacket
7120	22	7/30	3	.050/1.27	.172/4.37	-20/80	17.3	20	E	
7121	22	7/30	3	.050/1.27	.172/4.37	-20/80	17.3	21	Black, Red, Green	
7125	22	7/30	4	.050/1.27	.185/4.70	-20/80	22.4	25	E	
7130	22	7/30	5	.050/1.27	.199/5.05	-20/80	24.8	28	E	
7131	22	7/30	5	.050/1.27	.199/5.05	-20/80	24.8	20	A	
7135	22	7/30	6	.050/1.27	.209/5.31	-20/80	28.4	18	E	
7136	22	7/30	6	.050/1.27	.214/5.44	-20/80	29.7	24	A	
7140	22	7/30	7	.050/1.27	.214/5.44	-20/80	31.5	28	E	
7145	22	7/30	8	.050/1.27	.232/5.89	-20/80	37.5	25	E	
7150	22	7/30	9	.050/1.27	.246/6.25	-20/80	39.8	20	E	
7155	22	7/30	10	.050/1.27	.249/6.32	-20/80	42.3	20	E	
7160	22	7/30	12	.050/1.27	.266/6.76	-20/80	49.2	20	E	
7165	22	7/30	15	.050/1.27	.290/7.37	-20/80	59.4	20	E	
7166	22	7/30	15	.050/1.27	.299/7.59	-20/80	59.8	28	B	
7170	22	7/30	20	.050/1.27	.340/8.64	-20/80	79.3	20	E	
7171	22	7/30	20	.050/1.27	.340/8.64	-20/80	79.3	20	B	
7175	22	7/30	25	.050/1.27	.354/8.99	-20/80	93.2	20	E	
7176	22	7/30	25	.050/1.27	.354/8.99	-20/80	93.2	28	B	
7180	22	7/30	30	.050/1.27	.397/10.08	-20/80	110.5	28	E	
7181	22	7/30	30	.050/1.27	.397/10.08	-20/80	110.5	28	B	
7185	22	7/30	40	.050/1.27	.442/11.23	-20/80	142.0	28	E	
7190	22	7/30	50	.050/1.27	.481/12.22	-20/80	185.5	28	E	
7191	22	7/30	50	.050/1.27	.481/12.22	-20/80	185.5	28	B	
7195	22	7/30	60	.050/1.27	.523/13.28	-20/80	235.0	28	E	No CSA AWM I/II A/B FT4

**Unless noted otherwise in Notes column*

Foil & Braid Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/ Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Color Code or Table
7600	22	7/30	3	.050/1.27	.200/5.08	-20/80	26.6	37	67	A
7605	22	7/30	4	.050/1.27	.217/5.51	-20/80	29.3	37	67	A
7610	22	7/30	5	.050/1.27	.231/5.87	-20/80	34.9	37	67	A
7615	22	7/30	6	.050/1.27	.241/6.12	-20/80	40.1	35	63	A
7620	22	7/30	7	.050/1.27	.246/6.25	-20/80	41.2	35	63	A
7625	22	7/30	8	.050/1.27	.263/6.68	-20/80	49.1	35	63	A
7630	22	7/30	9	.050/1.27	.278/7.06	-20/80	53.7	35	63	A
7635	22	7/30	10	.050/1.27	.281/7.14	-20/80	54.9	35	63	A
7640	22	7/30	15	.050/1.27	.330/8.38	-20/80	77.6	35	63	B
7645	22	7/30	25	.050/1.27	.410/10.41	-20/80	117.6	35	63	B
7650	22	7/30	37	.050/1.27	.453/11.51	-20/80	156.2	35	63	B
7655	22	7/30	50	.050/1.27	.510/12.95	-20/80	210.0	35	63	B



SignalGuard™ Serial Communication
24 AWG Multiconductor RS-232 and RS-423

Construction
- 24 AWG Stranded Tinned Copper
- Foamed Polypropylene Insulation
- PVC Chrome Gray Jacket
- Color Code Table A

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- UL AWM Style 2919

Foil & Braid Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
8663	24	7/32	3	.054/1.37	.203/5.16	24	-20/80	25.1	12	22
8664	24	7/32	4	.054/1.37	.227/5.77	24	-20/80	29.4	12	22
8665	24	7/32	5	.054/1.37	.242/6.15	24	-20/80	34.0	12	22
8666	24	7/32	6	.030/.76	.250/6.35	24	-20/80	40.0	12	22
8667	24	7/32	7	.030/.76	.259/6.58	24	-20/80	42.0	12	22
8668	24	7/32	8	.054/1.37	.264/6.71	24	-20/80	41.0	12	22
8669	24	7/32	9	.030/.76	.285/7.24	24	-20/80	46.0	12	22
8670	24	7/32	10	.054/1.37	.311/7.90	24	-20/80	51.9	12	22

SignalGuard™ Serial Communication
24 AWG Multipair RS-232

Construction
- 24 AWG Stranded Tinned Copper
- LDPE Insulation
- PVC Chrome Gray Jacket
- Color Code Table D

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CMG
- UL AWM Style 2448

Foil Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms
8504	24	7/32	2	.054/1.37	.235/5.97	24	-20/75	23.6	14	25.9	110
8505	24	7/32	2.5	.054/1.37	.235/5.97	24	-20/75	29.0	14	25.9	110
8506	24	7/32	3	.054/1.37	.235/5.97	24	-20/75	28.6	13.5	25	110
8507	24	7/32	3.5	.054/1.37	.272/6.91	24	-20/75	33.9	13.5	25	110
8508	24	7/32	4	.054/1.37	.283/7.19	24	-20/75	35.9	13	24	110
8509	24	7/32	4.5	.054/1.37	.280/7.11	24	-20/75	38.2	13	24	110
8510	24	7/32	5	.054/1.37	.318/8.08	24	-20/75	45.3	12.8	23.6	120
8512	24	7/32	6	.054/1.37	.320/8.13	24	-20/75	47.6	12.8	23.6	120
8514	24	7/32	7	.054/1.37	.350/8.89	24	-20/75	55.1	12.8	23.6	120
8515	24	7/32	7.5	.054/1.37	.346/8.79	24	-20/75	55.8	12.8	23.6	120
8518	24	7/32	9	.054/1.37	.399/10.13	24	-20/75	64.0	12.5	21.5	120
8524	24	7/32	12	.054/1.37	.424/10.77	24	-20/75	84.2	13.8	25.5	120
8525	24	7/32	12.5	.054/1.37	.431/10.95	24	-20/75	86.9	12.5	23	120
8537	24	7/32	18.5	.054/1.37	.521/13.23	24	-20/75	138.6	12.5	21.5	120

SignalGuard™ Serial Communication
24 AWG Multipair RS-422

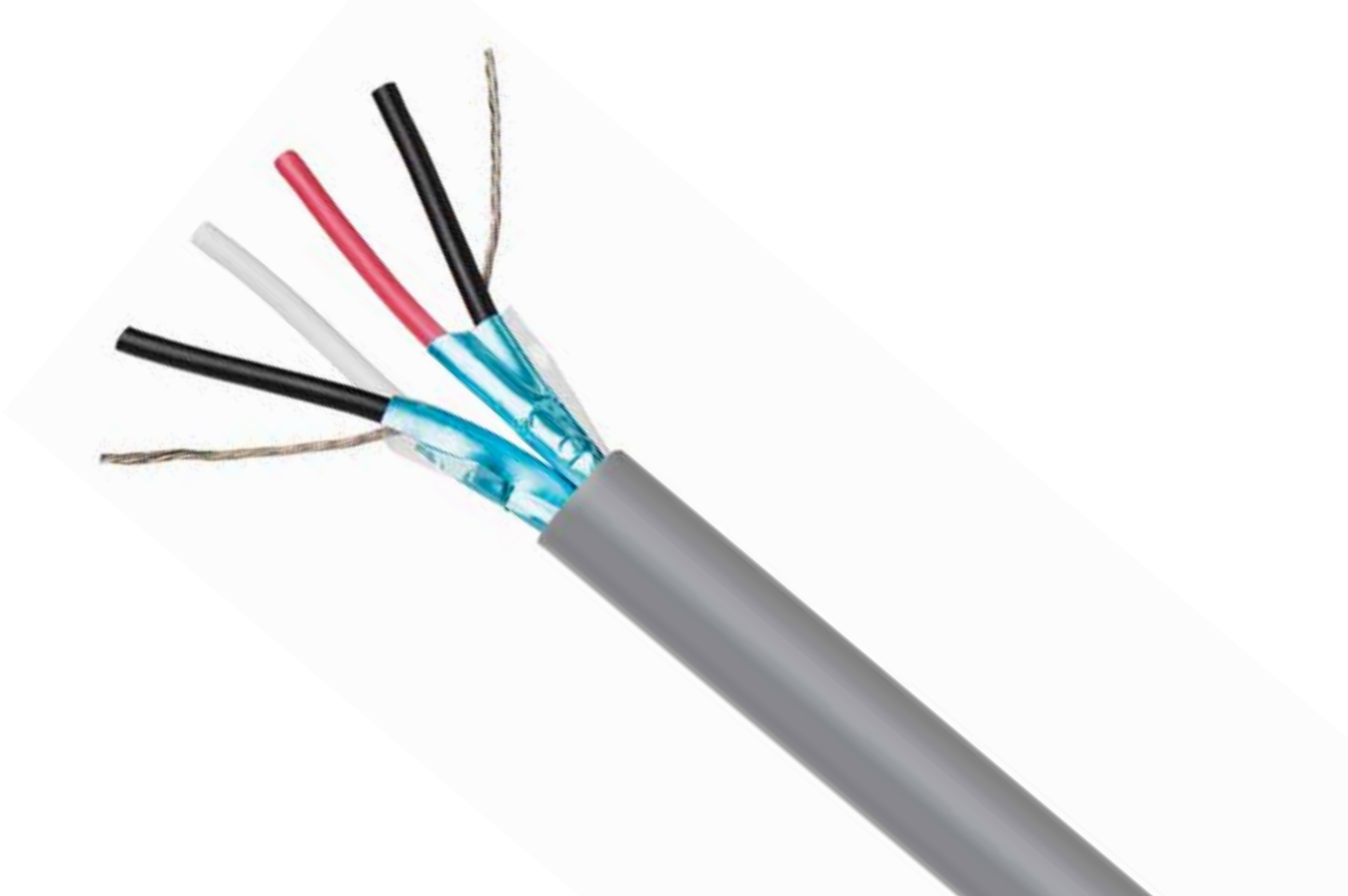
Construction
- 24 AWG Stranded Tinned Copper
- Foamed Polypropylene Insulation
- PVC Chrome Gray Jacket
- Nom. Imped. 100 ohms
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM

Foil Shielded Pairs

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	NEC Type	UL AWM Style
8602	24	7/32	1	.070/1.78	.207/5.26	24	-20/80	18.9	12.5	23.2	CMG	2919
8604	24	7/32	2	.070/1.78	.294/7.47	24	-20/60	31.7	12.5	23.2	CMG	2448
8606	24	7/32	3	.070/1.78	.324/8.23	24	-20/60	41.1	12.5	23.2	CMG	2448
8608	24	7/32	4	.070/1.78	.365/9.27	24	-20/60	52.7	12.5	23.2		2448
8612	24	7/32	6	.070/1.78	.464/11.79	24	-20/60	97.0	12.5	23.2		2493
8618	24	7/32	9	.070/1.78	.577/14.66	24	-20/60	116.6	12.5	23.2		2493
8622	24	7/32	11	.070/1.78	.586/14.88	24	-20/60	159.0	12.5	23.2		2493
8624	24	7/32	12	.070/1.78	.606/15.39	24	-20/60	159.6	12.5	23.2		2448
8630	24	7/32	15	.070/1.78	.720/18.29	24	-20/60	213.0	12.5	23.2		2493
8634	24	7/32	17	.070/1.78	.747/18.97	24	-20/60	232.0	12.5	23.2		2493
8638	24	7/32	19	.070/1.78	.765/19.43	24	-20/60	241.0	12.5	23.2		2493
8654	24	7/32	27	.070/1.78	.880/22.35	24	-20/60	309.3	12.5	23.2		2493



SignalGuard™ Serial Communication
24 AWG Multipair RS-422 and RS-485

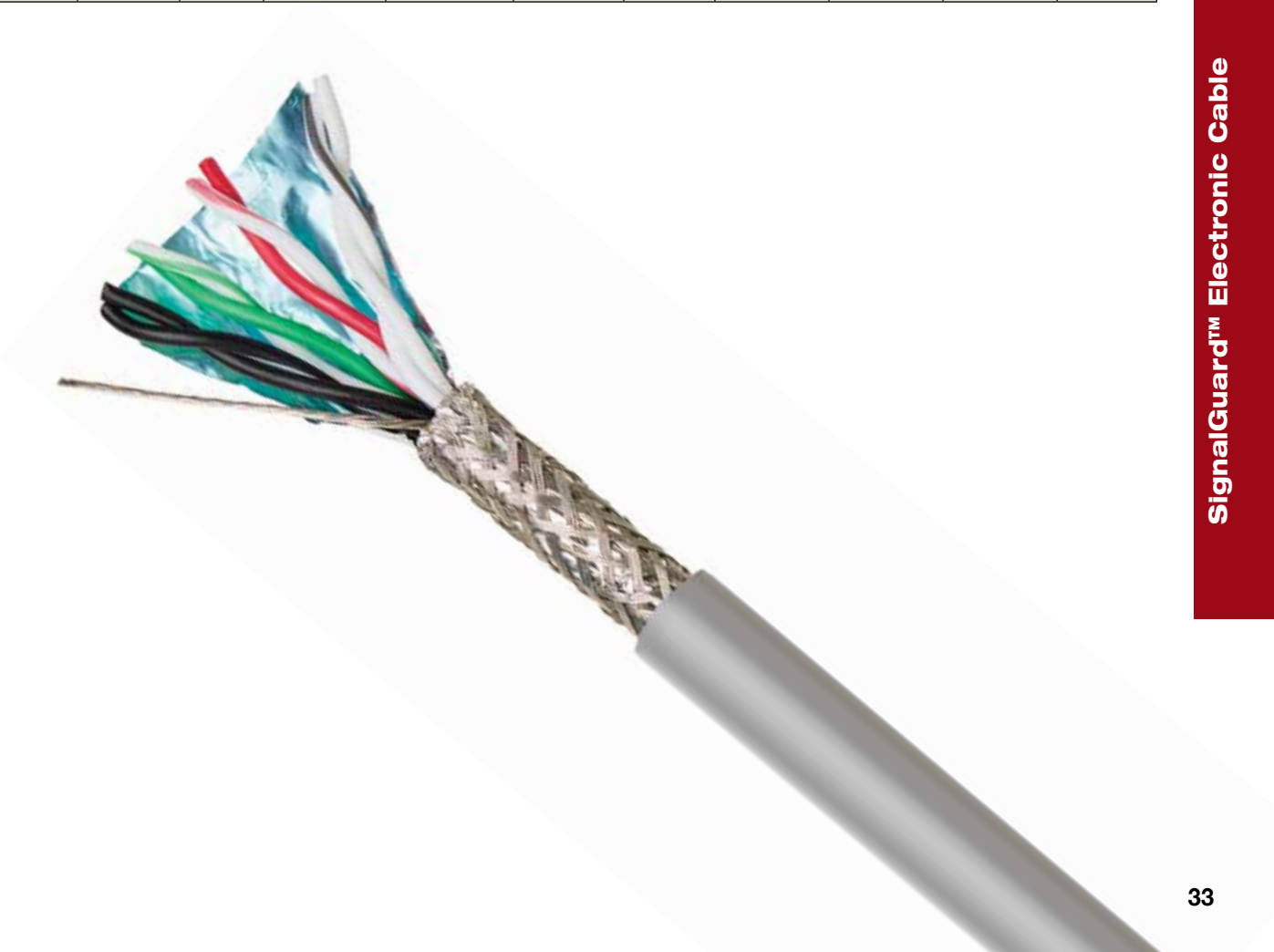
Construction
- 24 AWG Stranded Tinned Copper
- LDPE Insulation
- PVC Chrome Gray Jacket
- Color Code Table D

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CMG
- UL AWM Style 2448

Foil & Braid Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms
8302	24	7/32	1	.074/1.88	.238/6.05	24	-20/80	28.8	15.5	29	100
8304	24	7/32	2	.054/1.37	.250/6.35	24	-20/80	35.1	14	25.9	110
8306	24	7/32	3	.054/1.37	.258/6.55	24	-20/80	37.7	13.5	25	110
8308	24	7/32	4	.054/1.37	.298/7.57	24	-20/80	46.7	13	24	110
8309	24	7/32	4.5	.054/1.37	.298/7.57	24	-20/75	49.2	13	24	110
8312	24	7/32	6	.054/1.37	.330/8.38	24	-20/75	63.9	12.8	23.6	120
8315	24	7/32	7.5	.054/1.37	.356/9.04	24	-20/75	85.0	12.5	21.5	120
8318	24	7/32	9	.054/1.37	.399/10.13	24	-20/75	81.8	12.5	21.5	120
8325	24	7/32	12.5	.054/1.37	.440/11.18	24	-20/75	108.3	12	23	120



SignalGuard™ Serial Communication
28-24 AWG Multipair RS-422

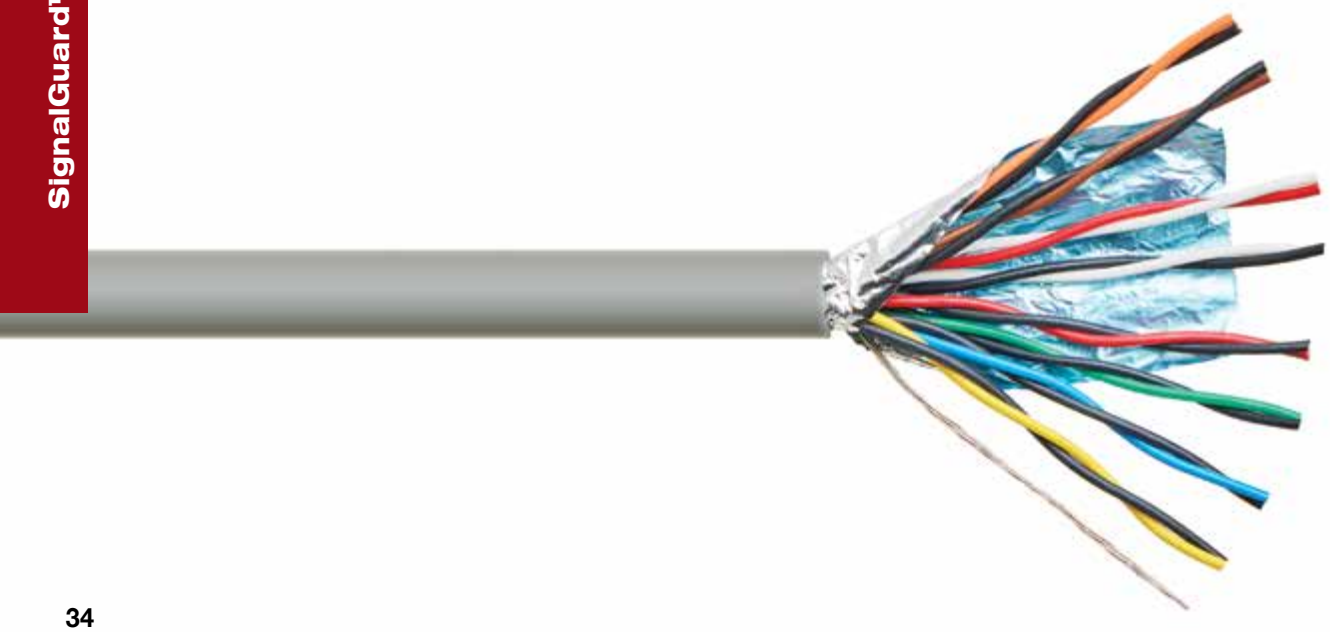
Construction
- 28-24 AWG Stranded Tinned Copper
- HDPE Insulation
- PVC Chrome Gray Jacket
- Color Code Table C

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CMG
- UL AWM Style 2919

Foil & Braid Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Nom. Imped. ohms	NEC Type
9504	28	7/36	2	.035/.89	.194/4.93	28	-20/80	24.7	15.5	27.5	100	CL2
9506	28	7/36	3	.033/.84	.205/5.21	28	-20/80	27.1	15.5	27.5	100	CL2
9508	28	7/36	4	.033/.84	.217/5.51	28	-20/80	29.2	15.5	27.5	100	CL2
9510	28	7/36	5	.033/.84	.244/6.20	28	-20/80	37.3	15.5	27.5	100	CL2
9514	28	7/36	7	.033/.84	.252/6.40	28	-20/80	40.4	15.5	27.5	100	CL2
9518	28	7/36	9	.033/.84	.288/7.32	28	-20/80	49.9	15.5	27.5	100	CL2
9524	28	7/36	12	.033/.84	.310/7.87	28	-20/80	57.1	15.5	27.5	100	CL2
9526	28	7/36	13	.033/.84	.321/8.15	28	-20/80	62.6	15.5	27.5	100	CL2
9550	28	7/36	25	.033/.84	.440/11.18	28	-20/80	104.3	15.5	27.5	100	CL2
8804	24	7/32	2	.046/1.17	.242/6.15	24	-20/80	31.7	18	32	85	CM
8806	24	7/32	3	.046/1.17	.239/6.07	24	-20/80	35.4	18	32	100	CM
8808	24	7/32	4	.046/1.17	.276/7.01	24	-20/80	43.3	15.5	27.5	100	CM
8810	24	7/32	5	.046/1.17	.350/8.89	24	-20/80	72.0	15.5	27.5	100	CM
8812	24	7/32	6	.046/1.17	.320/8.13	24	-20/80	56.0	15.5	27.5	100	CM
8814	24	7/32	7	.046/1.17	.338/8.59	24	-20/80	62.1	15.5	27.5	100	CM
8818	24	7/32	9	.046/1.17	.372/9.45	24	-20/80	74.2	15.5	27.5	100	CM
8820	24	7/32	10	.046/1.17	.396/10.06	24	-20/80	112.0	15.5	27.5	100	CM
8824	24	7/32	12	.046/1.17	.395/10.03	24	-20/80	86.7	15.5	27.5	100	CM



SignalGuard™ Serial Communication
24 AWG Multipair RS-232

Construction
- 24 AWG Stranded Tinned Copper
- Semi-Rigid PVC Insulation
- PVC Chrome Gray Jacket
- Nom. Imped. 75 ohms
- Color Code Table C*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CSA AWM I/II A/B FT4
- UL AWM Style 2464

Foil Shielded

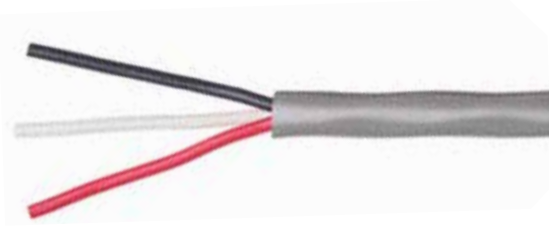
Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
8105	24	7/32	1	.044/1.12	.155/3.94	24	-20/80	13.3	40	74	Temp. Min -40°C per Quabbin
8110	24	7/32	2	.044/1.12	.197/5.00	24	-20/80	21.0	30	50	Temp. Min -40°C per Quabbin
8115	24	7/32	3	.044/1.12	.204/5.18	24	-20/80	24.3	30	50	Temp. Min -40°C per Quabbin
8120	24	7/32	4	.044/1.12	.240/6.10	24	-20/80	30.5	30	50	
8125	24	7/32	5	.044/1.12	.272/6.91	24	-20/80	36.8	30	50	
8130	24	7/32	6	.044/1.12	.291/7.39	24	-20/80	43.2	30	50	
8135	24	7/32	7	.044/1.12	.298/7.57	24	-20/80	48.6	30	50	
8138	24	7/32	8	.044/1.12	.315/8.00	24	-20/80	56.1	30	50	
8140	24	7/32	9	.044/1.12	.325/8.255	24	-20/80	57.5	30	50	
8141	24	7/32	10	.044/1.12	.329/8.36	24	-20/80	66.6	30	50	
8145	24	7/32	15	.044/1.12	.414/10.52	24	-20/80	90.3	30	50	
8150	24	7/32	19	.044/1.12	.430/10.92	24	-20/80	108.1	30	50	
8155	24	7/32	25	.044/1.12	.499/12.67	24	-20/80	138.9	30	50	
8158	24	7/32	50	.044/1.12	.741/18.821	24	-20/80	287.0	30	50	Contact Quabbin for Color Code

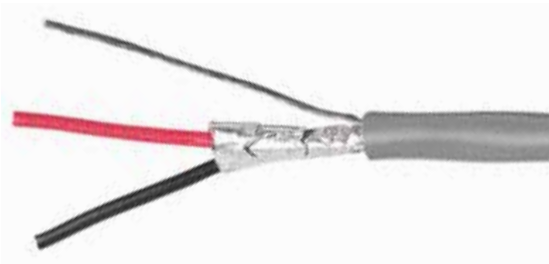
**Unless noted otherwise in Notes column*

Foil & Braid Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
8710	24	7/32	2	.044/1.12	.226/5.74	24	-20/80	29.1	30	50
8715	24	7/32	3	.044/1.12	.249/6.32	24	-20/80	33.8	30	50
8720	24	7/32	4	.044/1.12	.268/6.81	24	-20/80	39.9	30	50
8725	24	7/32	5	.044/1.12	.301/7.65	24	-20/80	51.3	30	50
8730	24	7/32	6	.044/1.12	.312/7.92	24	-20/80	52.5	30	50
8735	24	7/32	7	.044/1.12	.324/8.23	24	-20/80	67.0	30	50
8738	24	7/32	8	.044/1.12	.344/8.74	24	-20/80	77.0	30	50
8741	24	7/32	10	.044/1.12	.375/9.53	24	-20/80	76.5	30	50
8742	24	7/32	12.5	.044/1.12	.396/10.06	24	-20/80	88.2	30	50
8745	24	7/32	15	.044/1.12	.450/11.43	24	-20/80	127.0	30	50
8748	24	7/32	18	.044/1.12	.480/12.19	24	-20/80	148.0	30	50
8755	24	7/32	25	.044/1.12	.551/14.00	24	-20/80	192.0	30	50

Tray Rated/PLTC
22-12 AWG Multiconductor





Construction
- 22-12 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket*
- Sunlight Resistant Jacket
- Color Code Table E

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings and Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CSA AWM I/II A/B FT4
- CSA FAS 105 FT4*
- ITC*
- PLTC*
- UL AWM Style 2464

Unshielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Notes
0130	22	7/30	2	.062/1.57	.200/5.08	-20/105	18.9	20	No CSA FAS 105 FT4
0131	22	7/30	2	.062/1.57	.200/5.08	-20/105	18.9	20	Red Jacket, No CSA FAS 105 FT4
0190	22	7/30	3	.062/1.57	.209/5.31	-20/105	23.1	16	No CSA FAS 105 FT4
0135	20	10/30	2	.069/1.75	.214/5.44	-20/105	22.2	18	No CSA FAS 105 FT4
0195	20	10/30	3	.069/1.75	.224/5.69	-20/105	27.7	18	No CSA FAS 105 FT4
0140	18	16/30	2	.077/1.96	.230/5.84	-20/105	27.6	25	
0200	18	16/30	3	.077/1.96	.242/6.15	-20/105	37.7	25	
0145	16	19/.0117	2	.089/2.26	.254/6.45	-20/105	36.2	25	
0205	16	19/.0117	3	.089/2.26	.267/6.78	-20/105	47.5	32	ITC-ER, PLTC-ER
0150	14	41/30	2	.114/2.90	.314/7.98	-20/105	65.6	22	
0210	14	41/30	3	.114/2.90	.331/8.41	-20/105	73.9	28	ITC-ER, PLTC-ER
0155	12	65/30	2	.154/3.91	.412/10.46	-20/105	90.6	25	

** Unless noted otherwise in Notes column*

Foil Shielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
0160	22	7/30	2	.062/1.57	.203/5.16	22	-20/105	21.8	40	75	No CSA FAS 105 FT4
0215	22	7/30	3	.062/1.57	.212/5.38	24	-20/105	25.2	40	74	No CSA FAS 105 FT4
0165	20	10/30	2	.069/1.75	.215/5.46	22	-20/105	24.7	29	54	No CSA FAS 105 FT4
0220	20	10/30	3	.069/1.75	.227/5.77	22	-20/105	30.5	27	50	No CSA FAS 105 FT4
0170	18	16/30	2	.077/1.96	.233/5.92	20	-20/105	31.4	53	95	
0225	18	16/30	3	.077/1.96	.245/6.22	20	-20/105	39.4	51	93	
0175	16	19/.0117	2	.089/2.26	.257/6.53	18	-20/105	42.0	55	102	
0230	16	19/.0117	3	.089/2.26	.274/6.96	18	-20/105	53.1	50	93	
0180	14	41/30	2	.114/2.90	.317/8.05	16	-20/105	64.2	65	120	
0235	14	41/30	3	.114/2.90	.334/8.48	16	-20/105	84.7	40	75	
0185	12	65/30	2	.154/3.91	.417/10.59	14	-20/105	106.0	53	98	

** Unless noted otherwise in Notes column*

Tray Rated/PLTC
22-18 AWG Multipair

Construction
- 22-18 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Chrome Gray Jacket
- Sunlight Resistant Jacket
- Color Code
  - Each Pair Black x Red
  - Each Pair Numbered

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V*
- CSA AWM I/II A/B FT4*
- ITC*
- PLTC*
- UL AWM Style 2464

Foil Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
0240	22	7/30	2	.062/1.57	.273/6.93	24	-20/105	35.2	33	56	Voltage Rating Max 600V per AWM Style
0245	22	7/30	3	.062/1.57	.282/7.16	24	-20/105	43.1	33	56	Voltage Rating Max 600V per AWM Style
0250	22	7/30	4	.062/1.57	.349/8.86	24	-20/105	58.2	24	44	
0255	22	7/30	6	.062/1.57	.420/10.67	24	-20/105	82.3	18	34	Voltage Rating Max 600V per AWM Style
0260	22	7/30	9	.062/1.57	.481/12.22	24	-20/105	109.8	22	41	
0265	22	7/30	11	.062/1.57	.506/12.85	24	-20/105	127.4	22	41	
0270	22	7/30	15	.062/1.57	.591/15.01	24	-20/105	185.5	33	56	
0275	22	7/30	19	.062/1.57	.659/16.74	24	-20/105	216.4	25	44	
0280	22	7/30	27	.062/1.57	.735/18.67	24	-20/105	276.7	22	41	No CSA AWM I/II A/B FT4
0290	18	16/30	2	.077/1.96	.335/8.51	20	-20/105	55.3	31	56	ITC-ER, PLTC-ER, CSA FAS 105 FT4
0295	18	16/30	3	.077/1.96	.349/8.86	20	-20/105	75.0	33	69	CSA FAS 105 FT4
0300	18	16/30	4	.077/1.96	.400/10.16	20	-20/105	93.9	31	56	CSA FAS 105 FT4
0305	18	16/30	6	.077/1.96	.490/12.45	20	-20/105	134.5	31	56	CSA FAS 105 FT4
0310	18	16/30	9	.077/1.96	.571/14.50	20	-20/105	180.3	27	50	CSA FAS 105 FT4
0315	18	16/30	11	.077/1.96	.662/16.81	20	-20/105	261.0	31	56	CSA FAS 105 FT4
0320	18	16/30	15	.077/1.96	.737/18.72	20	-20/105	321.0	31	56	CSA FAS 105 FT4

** Unless noted otherwise in Notes column*

SignalGuard™ Building Automation & Control
22 AWG Multiconductor

Construction
- 22 AWG Stranded Tinned Copper*
- PVC Insulation*
- PVC Chrome Gray Jacket
- Color Code Table A*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 250V
- CL2
- Temp. Min -40°C per Quabbin

Unshielded

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Notes
6500	22	7/30	2	.050/1.27	.134/3.40	-20/90	10.0	19	Semi-Rigid PVC Insulation, Color Code Table E
6520	22	7/30	4	.046/1.17	.145/3.68	-20/90	15.8	20	Bare Copper
6530	22	7/30	5	.046/1.17	.160/4.06	-20/90	18.7	20	
6540	22	7/30	6	.046/1.17	.172/4.37	-20/90	25.0	20	
6550	22	7/30	8	.046/1.17	.194/4.93	-20/90	33.0	20	
6560	22	7/30	10	.046/1.17	.224/5.69	-20/90	35.3	20	
6565	22	Sol	10	.041/1.04	.188/4.78	-40/90	32.0	20	Bare Copper
6575	22	7/30	12	.046/1.17	.231/5.87	-20/90	40.0	20	
6590	22	7/30	15	.046/1.17	.251/6.38	-20/90	53.0	20	

** Unless noted otherwise in Notes column*

Invest in Quality That Lasts

Our products offer unmatched quality and reliability. When you invest in our wire and cable solutions, you're choosing a product that will stand the test of time, reducing downtime, troubleshooting effort, and replacement costs.

SignalGuard™ Building Automation & Control
22-14 AWG Multiconductor

Construction
- 22-14 AWG Stranded Bare Copper*
- PVC Insulation
- PVC Natural Jacket
- Color Code Table A

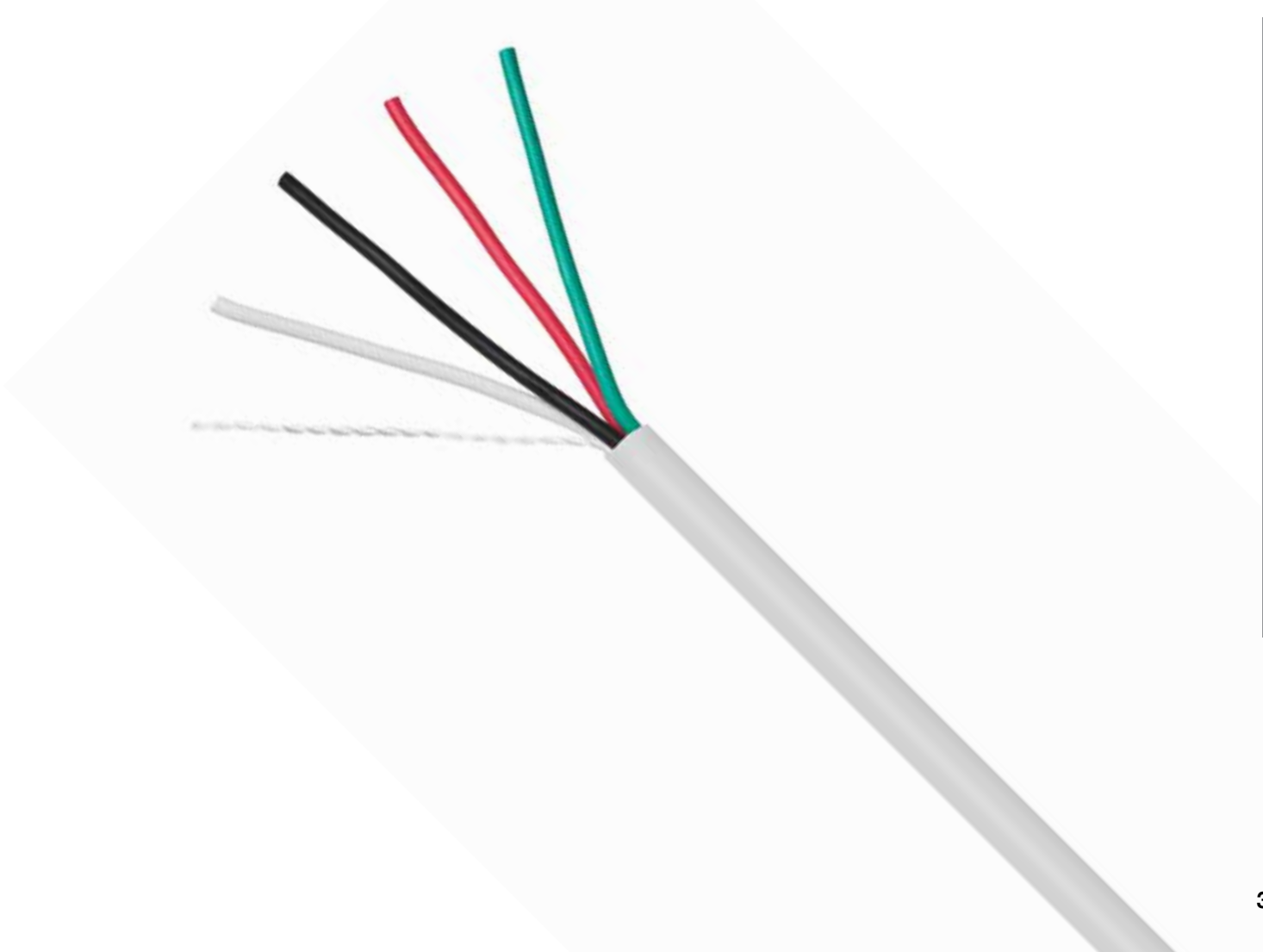
Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CL2P
- CMP

Unshielded Plenum Rated

Part Number	AWG	Stranding	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Notes
3003	22	7/30	4	.046/1.17	.141/3.58	-20/105	15.6	28	Tinned Copper
3002	18	7/26	4	.065/1.65	.187/4.57	-20/105	30.4	31	UL AWM Style 2103, VW-1 Flame Test
3001	16	19/.0147	4	.075/1.91	.212/5.38	-20/105	44.0	37	
3000	14	19/.0147	4	.092/2.34	.253/6.43	-20/105	67.4	39	

** Unless noted otherwise in Notes column*



SignalGuard™ Building Automation & Control
22-16 AWG Multiconductor

Construction
- 22-16 AWG Solid Bare Copper
- HDPE Insulation*
- PVC Red Jacket*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- CMG*

Unshielded

Part Number	AWG	Cond. Count	Insulated OD in/mm	Jacket Wall in/mm	Overall Diameter in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Notes
7470	22	6	.020/.51	.020/.51	.170/4.32	-20/80	22.1	26	PVC Insulation, Black Jacket, Color Code Table A, CSA AWM I/II A/B FT4, UL AWM Style 2464, No CMG
7475	22	9	.045/1.14	.020/.51	.204/5.18	-20/80	31.6	26	Semi-Rigid PVC Insulation, Black Jacket, Color Code Table A, CSA AWM I/II A/B FT4, UL AWM Style 2464, No CMG
7480	22	12	.045/1.14	.020/.51	.222/5.64	-20/80	40.4	26	PVC Insulation, Black Jacket, Color Code Table A, CSA AWM I/II A/B FT4, UL AWM Style 2464, No CMG
4210	18	2	.064/1.63	.021/.53	.170/4.32	-20/60	18.0	16	Color Code: Blk, Red
4235	18	4	.064/1.63	.021/.53	.197/5.00	-20/60	31.0	16	Color Code: Blk, Red, Grn, Yel
4240	18	6	.064/1.63	.032/.81	.250/6.35	-20/60	49.3	16	Color Code: Blk, Red, Grn, Yel, Blu, Org
4245	18	8	.064/1.63	.032/.81	.278/7.06	-20/60	63.3	16	Color Code: Blk, Red, Grn, Yel, Blu, Org, Brn, Vio
3145	16	2	.075/1.91	.021/.53	.192/4.88	-20/60	25.1	18	Color Code: Blk, Red

** Unless noted otherwise in Notes column*

Foil Shielded

Part Number	AWG	Cond. Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
4215	18	2	.064/1.63	.164/4.17	22	-20/60	20.9	30	56	Color Code: Blk, Red
4220	18	4	.064/1.63	.201/5.11	22	-20/60	34.0	25	47	Color Code: Blk, Red, Yel, Blu
3150	16	2	.075/1.91	.195/4.95	22	-20/60	28.0	35	64	Color Code: Blk, Red
3155	16	4	.075/1.91	.249/6.32	22	-20/60	53.0	28.5	53	Color Code: Blk, Red, Yel, Blu

** Unless noted otherwise in Notes column*

SignalGuard™ Instrumentation & Machine Control
20-18 AWG Multiconductor Triads

Construction
- 20-18 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Black Jacket
- Sunlight Resistant Jacket
- Color Code: Each Triad Black, Red, White

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- ITC
- PLTC
- UL AWM Style 2464

Foil Shielded

Part Number	AWG	Stranding	Triad Count	Shielded Triads	Overall Shield	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG in/mm	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
0335	20	10/30	1		•	.063/1.60	.212/5.38	22	-40/105	28.1	31	57
0336	20	10/30	2		•	.063/1.60	.358/9.09	22	-40/105	54.6	23	42
0337	20	10/30	4		•	.063/1.60	.432/10.97	22	-40/105	93.1	22	41
0338	20	10/30	8		•	.063/1.60	.560/14.22	22	-40/105	158.3	22	40
0339	20	10/30	2	•	•	.063/1.60	.367/9.32	22	-40/105	61.2	31	57
0340	20	10/30	4	•	•	.063/1.60	.444/11.28	22	-40/105	106.1	31	57
0341	20	10/30	8	•	•	.063/1.60	.576/14.63	22	-40/105	183.4	31	57
0342	18	7/.0152	1		•	.078/1.98	.240/6.10	20	-40/105	39.0	31	57
0343	18	7/.0152	2		•	.078/1.98	.430/10.92	20	-40/105	83.5	23	42
0344	18	7/.0152	4		•	.078/1.98	.490/12.45	20	-40/105	131.0	22	41
0345	18	7/.0152	8		•	.078/1.98	.645/16.38	20	-40/105	239.0	22	40
0346	18	7/.0152	2	•	•	.078/1.98	.405/10.29	20	-40/105	89.5	31	57
0347	18	7/.0152	4	•	•	.078/1.98	.500/12.70	20	-40/105	149.0	31	57
0348	18	7/.0152	8	•	•	.078/1.98	.660/16.76	20	-40/105	275.0	31	57

SignalGuard™ Instrumentation & Machine Control
20-16 AWG Multipair

Construction
- 20-16 AWG Stranded Tinned Copper
- PVC Insulation
- PVC Black Jacket
- Sunlight Resistant Jacket
- Color Code
  - Each Pair Black x White
  - Each Pair Numbered

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 300V
- CM
- ITC
- PLTC
- UL AWM Style 2464

Foil Shielded

Part Number	AWG	Stranding	Pair Count	Shielded Pairs	Overall Shield	Commun. Wire	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]
0321	20	10/30	1		•		.063/1.60	.195/4.95	22	-40/105	22.5	33	61
0322	20	10/30	2		•		.063/1.60	.265/6.73	22	-40/105	36.4	25	46
0323	20	10/30	4		•		.063/1.60	.355/9.02	22	-40/105	63.0	23	43
0324	20	10/30	8		•		.063/1.60	.450/11.43	22	-40/105	112.0	22	41
0325	20	10/30	2	•	•		.063/1.60	.300/7.62	22	-40/105	46.8	33	61
0326	20	10/30	4	•	•		.063/1.60	.380/9.65	22	-40/105	82.1	33	61
0327	20	10/30	8	•	•		.063/1.60	.490/12.45	22	-40/105	140.0	33	61
0328	18	7/.0152	1		•		.078/1.98	.233/5.92	20	-40/105	31.6	33	62
0329	18	7/.0152	2		•	•	.078/1.98	.330/8.38	20	-40/105	58.5	25	47
0330	18	7/.0152	4		•	•	.078/1.98	.450/11.43	20	-40/105	103.0	23	43
0331	18	7/.0152	8		•	•	.078/1.98	.565/14.35	20	-40/105	170.0	22	41
0332	18	7/.0152	2	•	•	•	.078/1.98	.365/9.27	20	-40/105	70.1	33	62
0333	18	7/.0152	4	•	•	•	.078/1.98	.483/12.27	20	-40/105	123.0	33	62
0334	18	7/.0152	8	•	•	•	.078/1.98	.600/15.24	20	-40/105	208.0	33	62
0349	16	7/.0192	1		•		.091/2.31	.259/6.58	18	-40/105	41.8	39	71
0350	16	7/.0192	2		•	•	.091/2.31	.378/9.60	18	-40/105	77.4	28	51
0351	16	7/.0192	4		•	•	.091/2.31	.462/11.73	18	-40/105	132.0	26	48
0352	16	7/.0192	8		•	•	.091/2.31	.627/15.93	18	-40/105	241.0	25	46
0353	16	7/.0192	2	•	•	•	.091/2.31	.432/10.97	18	-40/105	100.0	39	71
0354	16	7/.0192	4	•	•	•	.091/2.31	.546/13.87	18	-40/105	164.0	39	71
0355	16	7/.0192	8	•	•	•	.091/2.31	.724/18.39	18	-40/105	299.0	39	71

SignalGuard™ Roadway Loop
20 AWG Multipair

Construction
- 20 AWG Solid or Stranded Tinned Copper
- Polypropylene Insulation
- HDPE Black Jacket
- Ripcord
- Color Code Table C*

Additional Design Options
- Cond. Counts and Gauges
- Insulation Materials
- Color Codes
- Braided Shield
- Jacket Materials
- Jacket Colors Custom Matched
- Pressure Extruded Jacket
- Custom Print Legends
- Packaging Options

Ratings, Listings & Approvals
- RoHS Compliant
- Voltage Rating Max 350V per Quabbin

Foil Shielded

Part Number	AWG	Stranding	Pair Count	Insulated OD in/mm	Overall Diameter in/mm	Drain Wire(s) AWG	Temp. Min/Max °C	Net Wt./M', Nom. lb	Nom. Cap. pF/ft [Mutual]	Nom. Cap. pF/ft [Grounded]	Notes
6170	20	10/30	3	.063/1.60	.337/8.56	22	-20/60	49.8	30	55	
6175	20	10/30	6	.063/1.60	.446/11.33	22	-20/60	91.0	30	55	
6183	20	Solid	1	.058/1.47	.189/4.80	22 Solid	-20/60	17.1	25	46	Color Code: 1. Clr 2. Blk

** Unless noted otherwise in Notes column*

Simplified Communication for Faster Results

Time is money. We make communication easy—no gatekeepers, just direct access to our experienced sales support team and cable design experts. We streamline the process, so you can focus on your business priorities.

Solid and Stranded Copper Technical Information

All information listed below is for tinned copper unless otherwise indicated.
Data is taken from the National Bureau of Standards Copper Wire Tables (Handbook 100).

AWG	Stranding	Nom. Diameter		Circular Mil Area	Weight		DC Resistance	
		inch	mm		#/1000'	kg/km	OHMS/1000'	OHMS/km
28	Solid Bare	.0126	.320	159.8	.484	.720	64.90	212.94
	7/36	.015	.381	141.8	.529	.787	64.90	212.94
	19/40	.016	.406	182.6	.553	.823	56.70	186.03
27	Solid Bare	.0142	.361	201.5	.610	.908	51.50	168.97
	7/35	.018	.457	219.5	.664	.988	54.50	178.81
26	Solid Bare	.0159	.404	253.0	.769	1.144	40.80	133.86
	7/34	.019	.483	277.8	.841	1.251	37.30	122.38
	10/36	.021	.533	250.0	.757	1.126	41.50	136.16
	19/38	.020	.508	304.0	i	1.369	34.40	112.87
24	Solid Bare	.0201	.511	404.0	1.223	1.820	25.70	84.32
	7/32	.024	.610	448.0	1.356	2.018	23.30	76.45
	10/34	.023	.582	396.9	1.201	1.787	26.10	85.63
	19/36	.024	.610	475.0	1.430	2.128	21.10	69.23
	41/40	.023	.584	394.0	1.160	1.726	25.60	83.99
	42/40	.023	.586	403.5	1.190	1.768	25.55	83.83
22	Solid Bare	.0253	.643	640.4	1.945	2.895	16.10	52.82
	7/30	.030	.762	700.0	2.120	3.155	16.40	53.79
	19/34	.031	.787	754.1	2.280	3.393	15.60	51.17
	26/36	.030	.762	650.0	1.970	2.932	15.90	52.17
20	Solid Bare	.032	.813	1020.0	3.092	4.602	10.20	33.47
	7/28	.038	.965	1111.3	3.470	5.163	10.00	32.81
	10/30	.035	.899	1000.0	3.025	4.502	10.30	33.79
	19/32	.037	.940	1216.0	3.680	5.476	8.60	28.22
	26/34	.036	.914	1031.9	3.129	4.643	10.10	33.14
	41/36	.036	.914	1025.0	3.100	4.613	10.00	32.81
18	Solid Bare	.0403	1.020	1620.0	4.917	7.318	6.39	20.97
	7/.0152	.046	1.168	1617.3	4.900	7.293	6.64	21.78
	7/26	.048	1.219	1769.6	5.360	7.976	5.86	19.23
	16/30	.045	1.143	1600.0	4.840	7.202	6.48	21.26
	19/30	.049	1.245	1900.0	5.750	8.557	5.46	17.91
	41/34	.047	1.194	1627.3	4.929	7.321	6.37	20.90
	65/36	.047	1.194	1625.0	4.919	7.307	6.39	20.96
16	Solid Bare	.0508	1.290	2583.0	7.818	11.633	4.02	13.19
	7/24	.060	1.524	2828.0	8.560	12.737	3.67	12.04
	19/.0117	.058	1.473	2426.3	8.100	12.053	4.18	13.71
	19/29	.058	1.473	2426.3	7.350	10.937	4.27	14.01
	26/30	.059	1.499	2600.0	7.870	11.712	4.00	13.12
	65/34	.059	1.499	2579.9	7.810	11.621	4.02	13.19
	105/36	.059	1.499	2625.0	7.950	11.829	3.99	13.09

AWG	Stranding	Nom. Diameter		Circular Mil Area	Weight		DC Resistance	
		inch	mm		#/1000'	kg/km	OHMS/1000'	OHMS/km
14	Solid Bare	.0641	1.628	4107.0	12.430	18.496	2.53	8.00
	7/22	.073	1.854	4480.0	13.560	20.177	2.31	7.58
	19/.0147	.074	1.880	4105.7	13.100	19.493	2.62	8.72
	19/27	.073	1.854	3830.4	11.590	17.246	2.70	8.86
	41/30	.073	1.854	4100.0	12.400	18.451	2.53	8.30
	105/34	.075	1.905	4167.5	12.610	18.764	2.49	8.29
12	Solid Bare	.0808	2.052	6530.0	19.770	29.418	1.59	5.22
	7/20	.096	2.438	7168.0	21.690	32.275	1.45	4.76
	19/25	.093	2.362	6087.6	18.430	27.424	1.70	5.58
	65/30	.095	2.413	6500.0	19.660	29.254	1.75	5.74
	165/34	.095	2.413	6548.9	19.820	29.492	1.58	5.18
10	Solid Bare	.1019	2.588	10380.0	31.430	46.768	1.00	3.28
	37/26	.115	2.921	9353.6	28.300	42.110	1.11	3.64
	65/28	.120	3.048	10319.4	31.900	47.467	1.09	3.58
	105/30	.118	2.997	10500.0	31.800	47.318	.98	3.21

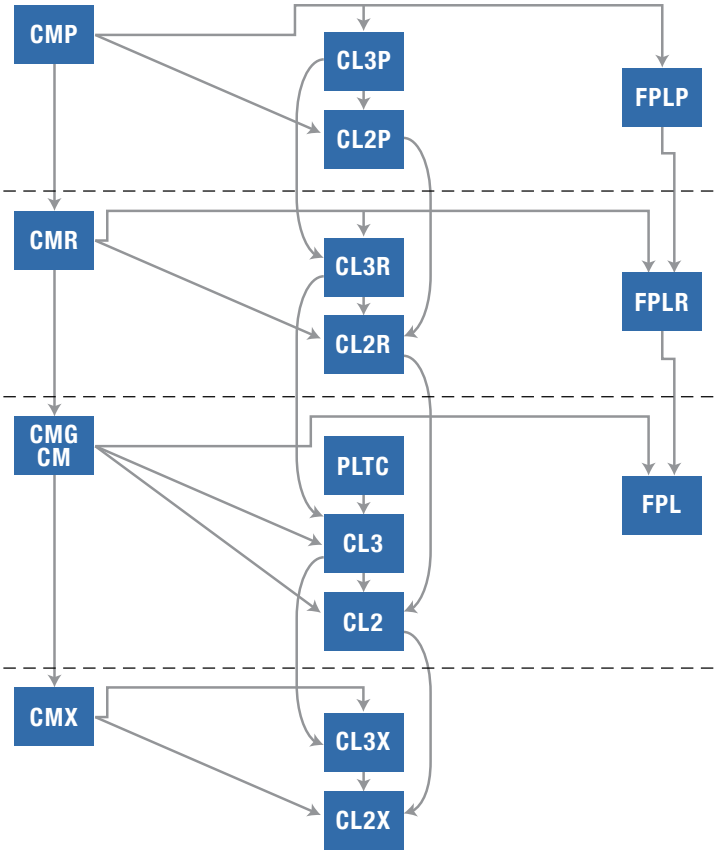
Electric Code Substitution Chart

Plenum
NFPA 262
UL-910 Steiner Tunnel

Riser
UL-1666
Vertical Shaft

General Purpose
UL-1685
Vertical Tray
CSA FT4

Residential
VW-1
Vertical Flame



Cable Ratings

Rating or Approval	Description	Application
CL2	Class 2	General-purpose use, with the exception of risers, ducts, plenums, and other space used for environmental air. Resistant to the spread of fire.
CL2P	Class 2 Plenum	Suitable for use in ducts, plenums, and other space for environmental air. Has adequate fire-resistant and low-smoke producing characteristics.
CM	Cable meeting UL 1685 (UL 1581, Sec. 1160) Vertical-Tray, CSA FT1	General-purpose communications use, with the exception of risers and plenums. Resistant to the spread of fire.
CMG	Cable meeting CSA FT4	General-purpose communications use, with the exception of risers and plenums, and shall also be listed as being resistant to the spread of fire.
CMP	Cable meeting CSA FT6 or NFPA 262 (UL 910)	Suitable for use in ducts, plenums, and other spaces used for environmental air and shall also be listed as having adequate fire-resistant and low smoke-producing characteristics.
CSA AWM I/II A/B FT4	Canadian Standards Association Appliance Wiring Material Class I/II, Type A/B Flame/Burning Test 4	Appliance wiring material recognized by UL as a component in listed or classified products for internal wiring of equipment (Class I) and external or interconnecting wires (Class II). Type A product is not subjected to mechanical abuse, whereas Type B product could potentially be subjected to mechanical abuse. FT4 certified finished wires or cables shall not exhibit charred material beyond a length exceeding 1.5 m (5 ft.) from the lower edge of the burner face when subjected to the test (CSA C22.2 No. 38).
CSA FAS 105 FT4	Canadian Standards Association Fire Alarm Signaling	Fire alarm cable suitable for connecting fire alarm devices, with a temperature rating of -20°C to 105°C and flame resistance tested to CSA FT4 standards.
ITC	Instrumentation Tray Cable	Sunlight resistant cable used for process controls, factory floor automation equipment, material handling, and sensors and transducers.
ITC-ER	Instrumentation Tray Cable-Exposed Run	ITC cable sufficiently rugged to permit its use as extended run or exposed wiring.
PLTC	Power Limited Tray Cable	Sunlight and moisture resistant CL3-type (Class 3) cable which must pass the Vertical Tray flame test.
PLTC-ER	Power Limited Tray Cable-Exposed Run	PLTC cable sufficiently rugged to permit its use as extended run or exposed wiring.
RoHS Compliant	Restriction of Hazardous Substances	EU directive that restricts the use of certain hazardous substances in electrical and electronic equipment (EEE) and cable. A product labeled as RoHS compliant adheres to these guidelines and contains no lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB), or polybrominated diphenyl ethers (PBDE).
UL AWM Style 20093	UL Standard 758 Appliance Wiring Material Style 20093	Multiconductor cable with extruded insulation for internal wiring of electronic equipment in nonhazardous locations where the suitability of the combination has been determined by UL.
UL AWM Style 2092	UL Standard 758 Appliance Wiring Material Style 2092	Multiconductor cable with non-integral extruded jacket for internal wiring.
UL AWM Style 2095	UL Standard 758 Appliance Wiring Material Style 2095	Multiconductor cable with non-integral jacket for internal wiring of electronic equipment and appliances. Tags may indicate "600 volts Peak for Electronic use only".
UL AWM Style 2448	UL Standard 758 Appliance Wiring Material Style 2448	Multiconductor cable with non-integral jacket for internal wiring or external interconnection in Class 2 circuits of electronic equipment.
UL AWM Style 2464	UL Standard 758 Appliance Wiring Material Style 2464	Multiconductor cable with non-integral jacket for internal wiring or external interconnection of electronic equipment.
UL AWM Style 2586	UL Standard 758 Appliance Wiring Material Style 2586	Multiconductor cable with non-integral jacket for external interconnection or internal wiring.
UL AWM Style 2919	UL Standard 758 Appliance Wiring Material Style 2919	Multiconductor cable with non-integral jacket for internal wiring or external interconnection in Class 2 circuits of electronic computers and electric business machines.

Jacket Materials Comparison

Many jacketing options are available. Contact our cable design experts for technical support.

Performance Criteria	Jacket Materials						
	PVC	Industrial PVC	TPE	PUR (TPU)	ZHFR PUR (TPU)	CPE	PVDF
Ultraviolet and Weather Resistance	Fair	Good	Excellent	Good	Good	Excellent	Excellent
Resistance to Petrochemicals	Poor	Good	Good/ Excellent	Fair	Fair	Good/ Excellent	Excellent
Resistance to Flame and Fire	Excellent	Excellent	Good/ Excellent	Fair	Good	Excellent	Excellent
Resistance to Moisture	Fair	Good	Excellent	Excellent	Good	Excellent	Excellent
Resistance to Bases	Fair	Good	Good	Good	Fair	Fair	Excellent
Resistance to Acids	Fair	Fair	Good	Fair	Fair	Excellent	Excellent
Resistance to Ozone	Excellent	Excellent	Good	Good	Good	Fair	Excellent
Tensile Strength and Toughness	Good	Good	Fair	Excellent	Good	Excellent	Excellent
Flexibility and Flex Life	Fair	Fair	Excellent	Excellent	Excellent	Excellent	Good
Resistance to Abrasion and Scuff	Good	Good	Good	Excellent	Excellent	Excellent	Excellent
Resistance to Tear	Fair	Fair	Good	Excellent	Excellent	Excellent	Excellent
Low Temperature Flexibility and Brittle Point	Fair	Fair	Excellent	Excellent	Excellent	Excellent	Excellent
RoHS Compliant and Lead Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resistance to Crush	Fair	Fair	Fair	Good	Good	Good	Excellent
Resistance to Cut	Fair	Fair	Fair	Good	Good	Good	Excellent
Heat > 105° C	Good	Good	Good	Fair	Fair	Good	Excellent
Resistance to Weld Spatter	Fair	Fair	Excellent	Fair	Fair	Fair	Fair

Jacket Material Ratings

NFPA-70 National Electric Code® (NEC) is the guideline for safe electrical design, installation, and inspection to protect people and property from electrical hazards. As such, NEC established cable jacket ratings for the environment where each cable is best suited. These ratings are based on flammability testing to meet either required NFPA or UL specifications.

NEC Rating	Multipurpose Residential	General Use	Riser	Plenum
CMX	X			
CM/CMG	X	X		
CMR	X	X	X	
CMP	X	X	X	X*
CM-LS	X	X*		

**Useful where low smoke generation is critical*

Color Code Charts

TABLE A

Conductor	Color
1st	Black
2nd	White
3rd	Red
4th	Green
5th	Brown
6th	Blue
7th	Orange
8th	Yellow
9th	Violet
10th	Gray
11th	Pink
12th	Tan

TABLE B

Conductor	Color
1st	Black
2nd	White
3rd	Red
4th	Green
5th	Orange
6th	Blue
7th	White/Black
8th	Red/Black
9th	Green/Black
10th	Orange/Black
11th	Blue/Black
12th	Black/White
13th	Red/White
14th	Green/White
15th	Blue/White
16th	Black/Red
17th	White/Red
18th	Orange/Red
19th	Blue/Red
20th	Red/Green
21st	Orange/Green
22nd	Blk/Wht/Red
23rd	Wht/Blk/Red
24th	Red/Blk/Wht
25th	Grn/Blk/Wht
26th	Org/Blk/Wht
27th	Blue/Blk/Wht
28th	Blk/Red/Grn
29th	Wht/Red/Grn
30th	Red/Blk/Grn
31st	Grn/Blk/Org
32nd	Org/Blk/Grn
33rd	Blue/Wht/Org
34th	Blk/Wht/Org
35th	Wht/Red/Org
36th	Org/Wht/Blue
37th	Wht/Red/Blue
38th	Blk/Wht/Grn
39th	Wht/Blk/Grn
40th	Red/Wht/Grn
41st	Grn/Wht/Blue
42nd	Org/Red/Grn
43rd	Blu/Red/Grn
44th	Blk/Wht/Blue
45th	Wht/Blk/Blue
46th	Red/Wht/Blue
47th	Grn/Org/Red
48th	Org/Red/Blue
49th	Blue/Red/Org
50th	Blk/Org/Red

TABLE C

Pair No.	Color Combination
1	Black paired with Red
2	Black paired with White
3	Black paired with Green
4	Black paired with Blue
5	Black paired with Yellow
6	Black paired with Brown
7	Black paired with Orange
8	Red paired with White
9	Red paired with Green
10	Red paired with Blue
11	Red paired with Yellow
12	Red paired with Brown
13	Red paired with Orange
14	Green paired with White
15	Green paired with Blue
16	Green paired with Yellow
17	Green paired with Brown
18	Green paired with Orange
19	White paired with Blue
20	White paired with Yellow
21	White paired with Brown
22	White paired with Orange
23	Blue paired with Yellow
24	Blue paired with Brown
25	Blue paired with Orange
26	Brown paired with Yellow
27	Brown paired with Orange
28	Orange paired with Yellow
29	Violet paired with Orange
30	Violet paired with Red
31	Violet paired with White
32	Violet paired w/Dark Green
33	Violet paired w/Light Blue
34	Violet paired with Yellow
35	Violet paired with Brown
36	Violet paired with Black
37	Gray paired with White

TABLE D

Pair No.	Color Combination
1	Black paired with Black/White
2	White paired with White/Black
3	Red paired with White/Red
4	Green paired with White/Green
5	Brown paired with White/Brown
6	Blue paired with White/Blue
7	Orange paired with White/Orange
8	Yellow paired with White/Yellow
9	Violet paired with White/Violet
10	Gray paired with White/Gray
11	Pink paired with White/Pink
12	Tan paired with White/Tan
13	Black/Blue paired with Blue/Black
14	Black/Orange paired with Orange/Black
15	Black/Green paired with Green/Black
16	Black/Brown paired with Brown/Black
17	Black/Gray paired with Gray/Black
18	Yellow/Blue paired with Blue/Yellow
When half pair is used, the conductor is color coded Green/Yellow	

TABLE E

No.	Base Color	1st Stripe	2nd Stripe
1	Black		
2	Red		
3	White		
4	Green		
5	Orange		
6	Blue		
7	Brown		
8	Yellow		
9	Violet		
10	Gray		
11	Pink		
12	Tan		
13	Red	Green	
14	Red	Yellow	
15	Red	Black	
16	White	Black	
17	White	Red	
18	White	Green	
19	White	Yellow	
20	White	Blue	

No.	Base Color	1st Stripe	2nd Stripe
21	White	Brown	
22	White	Orange	
23	White	Gray	
24	White	Violet	
25	White	Black	Red
26	White	Black	Green
27	White	Black	Yellow
28	White	Black	Blue
29	White	Black	Brown
30	White	Black	Orange
31	White	Black	Gray
32	White	Black	Violet
33	White	Black	Black
34	White	Red	Black
35	White	Red	Red
36	White	Red	Green
37	White	Red	Blue
38	White	Red	Brown
39	White	Red	Violet
40	White	Green	Black

No.	Base Color	1st Stripe	2nd Stripe
41	White	Green	Red
42	White	Green	Green
43	White	Green	Blue
44	White	Green	Brown
45	White	Green	Violet
46	White	Blue	Black
47	White	Blue	Red
48	White	Blue	Green
49	White	Blue	Blue
50	White	Blue	Brown
51	White	Blue	Violet
52	White	Brown	Black
53	White	Brown	Red
54	White	Brown	Green
55	White	Brown	Blue
56	White	Brown	Brown
57	White	Brown	Violet
58	White	Violet	Red
59	White	Violet	Green
60	White	Violet	Blue

TABLE F

Conductor	Color
1	Black
2	Brown
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Violet
9	Gray
10	White
11	White/Black
12	White/Brown
13	White/Red
14	White/Orange
15	White/Yellow
16	White/Green
17	White/Blue
18	White/Violet
19	White/Gray
20	White/Black/Brown
21	White/Black/Red
22	White/Black/Orange
23	White/Black/Yellow
24	White/Black/Green
25	White/Black/Blue
26	White/Black/Violet

TABLE G (Western Electric Standard)

Pair No.	Color Combination
1	White/Blue paired with Blue/White
2	White/Orange paired with Orange/White
3	White/Green paired with Green/White
4	White/Brown paired with Brown/White
5	White/Gray paired with Gray/White
6	Red/Blue paired with Blue/Red
7	Red/Orange paired with Orange/Red
8	Red/Green paired with Green/Red
9	Red/Brown paired with Brown/Red
10	Red/Gray paired with Gray/Red
11	Black/Blue paired with Blue/Black
12	Black/Orange paired with Orange/Black
13	Black/Green paired with Green/Black
14	Black/Brown paired with Brown/Black
15	Black/Gray paired with Gray/Black
16	Yellow/Blue paired with Blue/Yellow
17	Yellow/Orange paired with Orange/Yellow
18	Yellow/Green paired with Green/Yellow
19	Yellow/Brown paired with Brown/Yellow
20	Yellow/Gray paired with Gray/Yellow
21	Violet/Blue paired with Blue/Violet
22	Violet/Orange paired with Orange/Violet
23	Violet/Green paired with Green/Violet
24	Violet/Brown paired with Brown/Violet
25	Violet/Gray paired with Gray/Violet

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9540	8200	27
9541	8205	27
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9545	8223	27
9546	8225	27
9550	8158	35
9552	0290	37
9553	0295	37
9554	0300	37
9556	0305	37
9559	0310	37
9563	0315	37
9565	0320	37
9571	4210	40
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9574	4215	40
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Our dedicated sales support team is here to understand your business needs and provide solutions that enhance your operations. We're more than a supplier—we're a partner invested in your success, offering the expertise and reliability you need to grow your business.

Glossary

AC (Alternating Current): An electric current that periodically reverses direction, used in most power supply systems.

Ampacity: The maximum amount of electrical current a conductor can carry before overheating.

ANSI (The American National Standards Institute): An organization that oversees standards and conformity assessment activities in the United States.

ASTM (ASTM International): A standards organization that develops and publishes voluntary consensus technical international standards for a wide range of materials, products, systems and services. Formerly known as American Society for Testing and Materials.

Attenuation: The reduction in signal strength as it travels through a cable.

AWG (American Wire Gauge): A standard for measuring wire diameter, critical in determining current-carrying capacity.

Bend Radius: The minimum radius a cable can be bent without damage or signal degradation.

Braided Shield: A layer of woven copper strands around a cable's core to protect against EMI and aid structural integrity.

Capacitance: The ability of two conductors separated by an insulating material to store a charge.

Capacitance – Grounded: The capacitance between conductors.

Capacitance – Mutual: The capacitance between 1 conductor and other conductors connected to the shield.

Core: The cable components; typically, a group of insulated wires that may include a shield, tape, drain, wire, and filler.

CPE (Chlorinated Polyethylene): A thermoplastic polymer made by chlorinating polyethylene, used for cable insulation and jackets. It is known for its high chemical resistance, flexibility, and durability.

CSA (Canadian Standards Association): A global organization dedicated to safety, social good and sustainability.

DC (Direct Current): A type of electrical current that flows in one direction, commonly used in low-voltage applications.

Dielectric: The insulating material between conductors in a cable that resists electrical flow.

Drain Wire: A conductor used in shielded cables to facilitate grounding and minimize noise.

Elongation: A measurement of how much an object will increase in length under a certain load. The results are expressed as a percentage of the original length.

EMI (Electromagnetic Interference): A disruption caused by external electromagnetic fields, affecting signal integrity.

ETL (Electrical Testing Labs): Administered by Intertek, a global Total Quality Assurance provider. An ETL listing is proof of product compliance with official quality and safety standards.

FEP (Fluorinated Ethylene Propylene): A material used for wire and cable insulation and jacketing for its excellent chemical- and flame-resistance and low friction. It is ideal for applications such as aerospace, electronics, medical devices, and high-frequency data transmission where its unique combination of properties provides significant advantages.

Flame Retardant: A characteristic of cable materials that resist burning and reduce flame spread.

Foil Shield: A thin layer of metal used in cables to shield against EMI.

Frequency: The number of cycles per second in a signal, measured in Hertz (Hz).

Ground Wire: A conductor that provides a path to the ground for electrical current, enhancing safety.

Halogen-Free: Cables made without halogens to reduce toxic smoke and corrosive gas during a fire.

HDPE (High Density Polyethylene): A rigid thermoplastic material used for insulation and cable jackets, known for its robust physical properties and reliability.

Impedance: The resistance of a circuit to alternating current, measured in ohms (Ω).

Insertion Loss: Ratio that represents the amount of signal power lost over the length of the cable, measured in decibels (dB).

Instrumentation Cable: Cable used to transmit signals from instruments to control systems, often shielded to prevent interference.

Insulation: Material that encases the conductor to prevent electrical leakage and protect against short circuits.

IP (Ingress Protection) Rating: A classification that indicates the level of protection against solids and liquids.

Jacket: The outer protective layer of a cable that shields it from environmental factors.

LDPE (Low Density Polyethylene): A flexible thermoplastic material used for insulation and cable jackets in less demanding applications than HDPE.

Low Voltage: Electrical circuits that operate at relatively low voltages, typically under 50V.

LSZH (Low Smoke Zero Halogen): A type of insulation used for cable insulation and jackets that emits low smoke and no halogen when exposed to fire, enhancing safety.

NEC (National Electrical Code): A set of standards for safe electrical design, installation, and inspection.

NFPA (National Fire Protection Association): An organization that develops fire safety standards, including for electrical wiring.

Nominal Voltage: The standard voltage level at which a system is designed to operate.

NSF (National Sanitation Foundation): A non-profit organization based in the United States with the goal of creating standards of sanitation and food safety for public health.

OD (Outside Diameter): The diameter of a cable.

Overcurrent: A situation where electrical current exceeds the safe operating limit of a conductor or device.

PLTC (Power-Limited Tray Cable): A type of cable used in control and signal applications with limited power.

PLTC-ER (Power-Limited Tray Cable Exposed Run): A cable with a tougher jacket than PLTC, the "-ER" designation stands for "Exposed Run," indicating it's designed for exposure to the elements or physical damage. Its robust outer jacket resists environmental factors and abrasion, making it ideal for use in areas not fully enclosed.

PPRO (Polypropylene): A thermoplastic polymer used for wire and cable insulation, valued for its effective electrical insulation, chemical resistance, and cost-effectiveness, making it suitable for both general-purpose and industrial applications.

PUR (Polyurethane): See TPU.

PVC (Polyvinyl Chloride): A common plastic used for cable insulation and jackets, known for its durability.

PVDF (Polyvinylidene Fluoride): A high-performance thermoplastic material used for wire and cable jackets, offering exceptional electrical insulation, chemical resistance, thermal stability, and flame resistance. It is ideal for demanding and specialized environments.

Return Loss: The portion of a signal that cannot be absorbed by the end of line termination or cannot cross an impedance change at some point in the transmission system.

Riser Cable: A cable designed for use in vertical shafts or risers, with flame-retardant properties.

RoHS (Restriction of Hazardous Substances): Originated in the European Union (EU), a directive that regulates the use of certain hazardous substances in electrical and electronic equipment.

Shield: A metallic layer of braid, spiral serve or tape that is applied over a core of a single insulated conductor or a group of conductors to prevent electrostatic or electromagnetic interference between adjacent wires and external sources.

TPE (Thermoplastic Elastomer): A type of material used for cable insulation and jacketing that combines the properties of both thermoplastics and elastomers, providing cable flexibility and performance in challenging environments, such as in automotive, industrial, and robotics applications.

TPU (Thermoplastic Polyurethane): A type of thermoplastic elastomer used in wire and cable applications due to its flexibility, durability, chemical resistance, and wide temperature range.

UL (Underwriters Laboratories): An organiza tion that certifies products for safety, including cables.

Velocity of Propagation (VoP): The speed at which an electrical signal travels through the conductor; impacts signal transmission characteristics and overall system performance.

ZHFR (Zero Halogen Flame-Retardant): A halogen-free cable jacketing material that inhibits the spread of flames and limits toxic emission; ideal for safety-critical environments such as in public buildings, transportation, and industrial settings.

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