

CAROL
BRAND

EXZEL™
EXCEPTIONAL PERFORMANCE

High-Endurance Cabling

> THE EXCEPTIONAL
CHOICE FOR
PEACE OF MIND



 General Cable

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Carol® Brand EXZEL™ Complete Peace of Mind

As a full electronics solutions provider with a commitment to designing innovative cable constructions, General Cable recognizes the growing demand for a higher performance line of electronic wire and cable to support emerging technology, mission-critical applications and today's environmental concerns. That's why we've introduced a new, tougher addition to the Carol® Brand family – **EXZEL™** High-Endurance Electronic Cables.

EXCEPTIONAL HIGH-ENDURANCE CABLING

General Cable's new EXZEL High-Endurance Electronic Cables are engineered for extreme environments where unparalleled performance is critical and cable failures are not an option. An exceptional choice that offers complete peace of mind, this new cabling line *exzels* in applications where oil, liquids, vapors or other substances can attack the jacketing of conventional "round gray" PVC electronic cables. Along with improved jacketing performance, EXZEL's innovative Dual Foil/Braid Shield technology provides more effective shielding. This dual-foil design with 85% copper-braid coverage significantly reduces electromagnetic and radio frequency interference (EMI/RFI) over traditional single-foil tape designs.

AN ENVIRONMENTALLY CONSCIOUS CHOICE

In response to environmental concern surrounding the burning of halogens, General Cable also offers the Low-Smoke, Zero-Halogen (LSZH) line of EXZEL High-Endurance Electronic Cables. To reduce the toxicity and corrosive effects that may impact people and equipment, Carol Brand's EXZEL LSZH construction produces low amounts of smoke and acid gas during a fire, while maintaining the same flame requirements, electrical performance and longevity as traditional cable constructions.

Whether you are involved with a green building installation or simply looking for ways to safeguard people and protect the environment, EXZEL High-Endurance Electronic Cables provide a true "green" alternative. And with EXZEL, U.S. manufacturers now have access to a domestic LSZH cable solution required for use on equipment that may be sold internationally.

EXZEL TABLE OF CONTENTS

- EXZEL Multi-Conductor PVC Cables (Unshielded, Foil Shield and Foil + Braid Shield) – pgs 6-8
- EXZEL Multi-Pair PVC Cables (Unshielded, Foil Shield and Foil + Braid Shield) – pgs 9-11
- EXZEL Multi-Conductor Heavy-Duty PVC Cables (Unshielded, Foil Shield and Foil + Braid Shield) – pgs 12-14
- EXZEL Multi-Pair Heavy-Duty PVC Cables (Foil + Braid Shield) – pg 15
- EXZEL Multi-Conductor LSZH Cables (Unshielded, Foil Shield and Foil + Braid Shield) – pgs 16-18
- EXZEL Multi-Pair LSZH Cables (Unshielded, Foil Shield and Foil + Braid Shield) – pgs 19-21

READY TO SERVE

For more than 60 years, General Cable has met the ever-changing needs of major Original Equipment Manufacturers (OEMs) and the most demanding, high-volume bulk requirements of Maintenance Repair Operations (MROs), as well as smaller, niche OEMs around the world. Uniquely qualified to provide superior engineering, products and value-added services, General Cable's customers represent a virtual "who's who" of the industries we serve. All Carol® Brand's EXZEL™ High-Endurance Electronic Cables are ideal for use in the following markets and applications:

Manufacturing

- Device communications
- Control interconnect
- PLC networking
- Industrial machinery

Food and Beverage

- Meat and food processing
- Bottling plants
- Packaging machines

Semiconductor

- Robotic handling systems
- Class I, Division 2
- Automated test equipment
- Wafer processing equipment

Utilities

- Wastewater treatment plants
- Wind turbine control
- Gas delivery communications

Military

- Mobile communications
- Avionics control

Process

- Remote monitoring
- Discrete/analog signaling

Medical Diagnostics

- Digital imaging control
- Biomedical



BACKED BY QUALITY

EXZEL™ High-Endurance Electronic Cables are manufactured with the selection, quality and dependability our customers have come to expect from Carol® Brand cables. From special jacket colors, print legends and TRU-Mark sequential footage markings to unique constructions, innovative materials and quality manufacturing, General Cable's expert engineers offer superior service and design assistance. Most of our products carry UL, ETL, RoHS, CSA and other major approvals from around the globe.

Need a specific construction not available in our standard stock? We have you covered. General Cable will customize any standard EXZEL cable construction to meet your unique application requirements, including:

- Jacket colors
- Gauge sizes
- Conductor count and construction
- Insulation and jacket construction
- Shielding options
- Armoring
- Composites

EXZEL's LSZH cables, as well as all of our High-Endurance cables, are manufactured in General Cable's Franklin, Massachusetts and Manchester, New Hampshire facilities — both of which are recognized among North America's Top 10 Best Manufacturing Plants by *INDUSTRYWEEK* Magazine.

When exceptional performance and reliability are critical to your application, put your trust in Carol® Brand EXZEL™.

Comparison of Traditional Round Gray Electronic Cables to EXZEL™ High-Endurance Electronic Cables

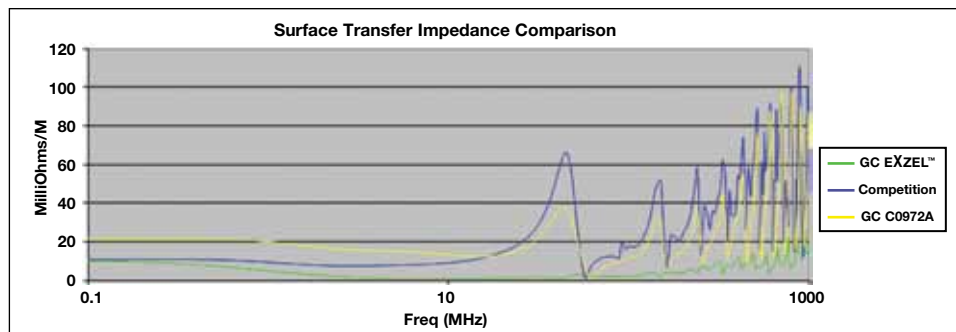
	Traditional Round Gray Electronic Cables	EXZEL™ PVC	EXZEL™ LSZH
Conductor Type	Tinned Copper	Tinned Copper	Tinned Copper
Conductor Strand	7/XX	Flexible	Flexible
Insulation	PVC	PVC	LSZH
Shielding	Limited	Full	Full
Braid Coverage	70	70	85
Jacket	PVC	PVC	LSZH
Footage Markings	No	TRU-Mark®	Yes
Temp Rating	80°C	105°C	105°C
Oil Resistance	No	No	OR I*
UV Resistance	No	Yes	Yes
NEC/UL Type CM	Yes (80°C)	Yes (105°C)	Yes
UL AWM	Style 2464	Style 2464	N/A
CSA CMG	Yes (80°C)	Yes (105°C)	No
UL PLTC-ER	No	No	Yes
PLTC	No	No	Yes
UL Flame Rating	UL 1581	UL 1581	UL 1581
CSA Flame Rating	FT4	FT4	FT4

*OR I = UL Oil Resistance I

FEATURES AND BENEFITS OF CAROL® BRAND EXZEL™

- Reduced downtime for lower cost of ownership
- Superior reliability, even in the harshest environments
- Extensive selection to meet application needs
- Optimum lifespan in severe operating conditions
- Highest available shield coverage for maximum EMI/RFI resistance
- Low-Smoke, Zero-Halogen constructions available
- Premium-grade PVC insulation and jacket available for routing in tight spaces
- Resistant to most oils (UL Class 43) and to ambient temperatures up to 105°C

SURFACE TRANSFER IMPENDANCES (STI)



Why General Cable?

Unrivaled service. Unparalleled innovation. Unmatched industry leadership.

At General Cable, we believe quality is what we put in your product. That's why we employ a LeanSigma management philosophy that eliminates waste and non-value-added processes to improve the flow of information and materials. Always searching for new and better ways of doing things, General Cable consistently identifies and eliminates sources of variation while reducing cycle time and inventory, ensuring better capacity and space utilization and improving productivity. We have the right mix of people, equipment and experience to produce custom cables, wire harnesses and cable assemblies of the highest complexity and quality – High-Endurance Electronic products that *exzel!*

- Certified ISO 9001 manufacturing facilities
- Rigorous performance standards
- Ongoing R&D for an ever-growing range of materials
- Superior materials and proactive prevention
- Comprehensive process control and quality audits
- Stringent in-house and third-party testing

General Cable is an environmentally conscious company committed to reducing and, where possible, eliminating hazardous substances. Our facilities have fully implemented an ISO 14001-equivalent environmental management system with strict oversight to ensure that regulatory compliance is met or exceeded. All applicable products are certified or are being upgraded to meet RoHS standards, and we are working to comply with evolving REACH requirements as they pertain to wire and cable products and materials.

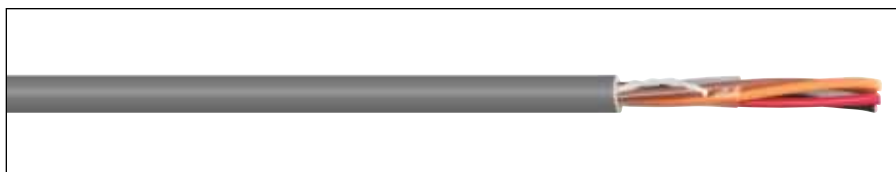
THE BOTTOM LINE

General Cable recognizes and values the vital importance of total, exceptional customer satisfaction, and we have the experience and know-how to achieve it. Our people may come to work for us, but on the job, our *Wire Wizards* work for you. Put us to work and see what we can do for you.

EXZEL™ MULTI-CONDUCTOR, UNSHIELDED

UL 2464, NEC Type CM (UL), CSA CMG

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- Unshielded

Jacket:

- Premium PVC
- Operating temperature range:
-30°C to +105°C (Type CM)
-30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant per UL 720-hr. UV test
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

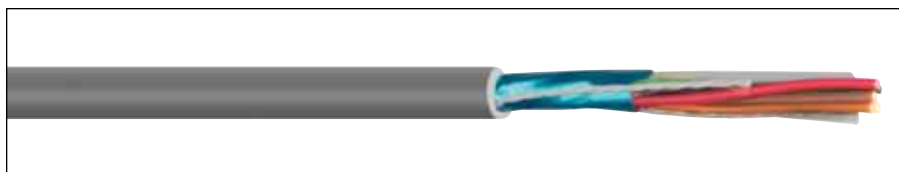
PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9000A	2	24	7/32	0.010	0.25	0.032	0.81	0.155	3.94
C9001A	3	24	7/32	0.010	0.25	0.032	0.81	0.161	4.10
C9002A	4	24	7/32	0.010	0.25	0.032	0.81	0.173	4.40
C9003A	6	24	7/32	0.010	0.25	0.032	0.81	0.198	5.03
C9004A	8	24	7/32	0.010	0.25	0.032	0.81	0.211	5.37
C9005A	10	24	7/32	0.010	0.25	0.032	0.81	0.241	6.12
C9006A	15	24	7/32	0.010	0.25	0.032	0.81	0.271	6.89
C9007A	20	24	7/32	0.010	0.25	0.032	0.81	0.297	7.55
C9008A	25	24	7/32	0.010	0.25	0.032	0.81	0.327	8.31
C9009A	2	22	7/30	0.010	0.25	0.032	0.81	0.167	4.24
C9010A	3	22	7/30	0.010	0.25	0.032	0.81	0.174	4.43
C9011A	4	22	7/30	0.010	0.25	0.032	0.81	0.188	4.76
C9012A	6	22	7/30	0.010	0.25	0.032	0.81	0.216	5.49
C9013A	8	22	7/30	0.010	0.25	0.032	0.81	0.231	5.87
C9014A	10	22	7/30	0.010	0.25	0.032	0.81	0.265	6.73
C9015A	15	22	7/30	0.010	0.25	0.032	0.81	0.299	7.60
C9016A	20	22	7/30	0.010	0.25	0.032	0.81	0.329	8.36
C9017A	25	22	7/30	0.010	0.25	0.032	0.81	0.363	9.22
C9018A	2	20	7/28	0.016	0.41	0.032	0.81	0.205	5.21
C9019A	3	20	7/28	0.016	0.41	0.032	0.81	0.215	5.47
C9020A	4	20	7/28	0.016	0.41	0.032	0.81	0.234	5.93
C9021A	6	20	7/28	0.016	0.41	0.032	0.81	0.273	6.93
C9022A	8	20	7/28	0.016	0.41	0.032	0.81	0.294	7.47
C9023A	10	20	7/28	0.016	0.41	0.032	0.81	0.341	8.66
C9024A	15	20	7/28	0.016	0.41	0.032	0.81	0.389	9.87
C9025A	20	20	7/28	0.016	0.41	0.032	0.81	0.430	10.92
C9026A	25	20	7/28	0.016	0.41	0.032	0.81	0.477	12.12
C9027A*	2	18	16/30	0.016	0.41	0.032	0.81	0.225	5.72
C9028A	2	18	16/30	0.016	0.41	0.032	0.81	0.225	5.72
C9029A*	3	18	16/30	0.016	0.41	0.032	0.81	0.237	6.01
C9030A	3	18	16/30	0.016	0.41	0.032	0.81	0.237	6.01
C9031A	4	18	16/30	0.016	0.41	0.032	0.81	0.258	6.55
C9032A	6	18	16/30	0.016	0.41	0.032	0.81	0.303	7.70
C9033A	8	18	16/30	0.016	0.41	0.032	0.81	0.327	8.31
C9034A	10	18	16/30	0.016	0.41	0.032	0.81	0.381	9.68
C9035A	15	18	16/30	0.016	0.41	0.032	0.81	0.436	11.06
C9036A	20	18	16/30	0.016	0.41	0.032	0.81	0.483	12.27
C9037A	25	18	16/30	0.016	0.41	0.032	0.81	0.537	13.64
C9038A*	2	16	19/.0117	0.016	0.41	0.032	0.81	0.245	6.22
C9039A	2	16	19/.0117	0.016	0.41	0.032	0.81	0.245	6.22
C9040A*	3	16	19/.0117	0.016	0.41	0.032	0.81	0.258	6.56
C9041A	3	16	19/.0117	0.016	0.41	0.032	0.81	0.258	6.56
C9042A	4	16	19/.0117	0.016	0.41	0.032	0.81	0.282	7.16
C9043A	6	16	19/.0117	0.016	0.41	0.032	0.81	0.333	8.46
C9044A	8	16	19/.0117	0.016	0.41	0.032	0.81	0.360	9.15
C9045A	10	16	19/.0117	0.016	0.41	0.032	0.81	0.421	10.69
C9046A	15	16	19/.0117	0.016	0.41	0.032	0.81	0.483	12.26
C9047A	20	16	19/.0117	0.016	0.41	0.053	1.35	0.578	14.69
C9048A	25	16	19/.0117	0.016	0.41	0.053	1.35	0.639	16.23

* IEC Color Code: Brown, Blue, Green/Yellow



EXZEL™ MULTI-CONDUCTOR, FOIL SHIELDED

UL 2464, NEC Type CM (UL), CSA CMG



PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9100A	2	24	7/32	0.010	0.25	0.032	0.81	0.157	3.99
C9101A	3	24	7/32	0.010	0.25	0.032	0.81	0.163	4.15
C9102A	4	24	7/32	0.010	0.25	0.032	0.81	0.175	4.45
C9103A	6	24	7/32	0.010	0.25	0.032	0.81	0.200	5.08
C9104A	8	24	7/32	0.010	0.25	0.032	0.81	0.213	5.42
C9105A	10	24	7/32	0.010	0.25	0.032	0.81	0.243	6.17
C9106A	15	24	7/32	0.010	0.25	0.032	0.81	0.273	6.94
C9107A	20	24	7/32	0.010	0.25	0.032	0.81	0.299	7.60
C9108A	25	24	7/32	0.010	0.25	0.032	0.81	0.329	8.36
C9109A	2	22	7/30	0.010	0.25	0.032	0.81	0.169	4.29
C9110A	3	22	7/30	0.010	0.25	0.032	0.81	0.176	4.48
C9111A	4	22	7/30	0.010	0.25	0.032	0.81	0.190	4.82
C9112A	6	22	7/30	0.010	0.25	0.032	0.81	0.218	5.54
C9113A	8	22	7/30	0.010	0.25	0.032	0.81	0.233	5.92
C9114A	10	22	7/30	0.010	0.25	0.032	0.81	0.267	6.78
C9115A	15	22	7/30	0.010	0.25	0.032	0.81	0.301	7.65
C9116A	20	22	7/30	0.010	0.25	0.032	0.81	0.331	8.41
C9117A	25	22	7/30	0.010	0.25	0.032	0.81	0.365	9.27
C9118A	2	20	7/28	0.016	0.41	0.032	0.81	0.207	5.26
C9119A	3	20	7/28	0.016	0.41	0.032	0.81	0.217	5.52
C9120A	4	20	7/28	0.016	0.41	0.032	0.81	0.236	5.98
C9121A	6	20	7/28	0.016	0.41	0.032	0.81	0.275	6.99
C9122A	8	20	7/28	0.016	0.41	0.032	0.81	0.296	7.52
C9123A	10	20	7/28	0.016	0.41	0.032	0.81	0.343	8.71
C9124A	15	20	7/28	0.016	0.41	0.032	0.81	0.391	9.92
C9125A	20	20	7/28	0.016	0.41	0.032	0.81	0.432	10.97
C9126A	25	20	7/28	0.016	0.41	0.032	0.81	0.479	12.17
C9127A	2	18	16/30	0.016	0.41	0.032	0.81	0.227	5.77
C9128A*	2	18	16/30	0.016	0.41	0.032	0.81	0.227	5.77
C9129A	3	18	16/30	0.016	0.41	0.032	0.81	0.239	6.06
C9130A*	3	18	16/30	0.016	0.41	0.032	0.81	0.239	6.06
C9131A	4	18	16/30	0.016	0.41	0.032	0.81	0.260	6.60
C9132A	6	18	16/30	0.016	0.41	0.032	0.81	0.305	7.75
C9133A	8	18	16/30	0.016	0.41	0.032	0.81	0.329	8.36
C9134A	10	18	16/30	0.016	0.41	0.032	0.81	0.383	9.73
C9135A	15	18	16/30	0.016	0.41	0.032	0.81	0.438	11.12
C9136A	20	18	16/30	0.016	0.41	0.032	0.81	0.485	12.32
C9137A	25	18	16/30	0.016	0.41	0.032	0.81	0.539	13.69
C9138A	2	16	19/.0117	0.016	0.41	0.032	0.81	0.247	6.27
C9139A*	2	16	19/.0117	0.016	0.41	0.032	0.81	0.247	6.27
C9140A	3	16	19/.0117	0.016	0.41	0.032	0.81	0.260	6.61
C9141A*	3	16	19/.0117	0.016	0.41	0.032	0.81	0.260	6.61
C9142A	4	16	19/.0117	0.016	0.41	0.032	0.81	0.284	7.21
C9143A	6	16	19/.0117	0.016	0.41	0.032	0.81	0.335	8.51
C9144A	8	16	19/.0117	0.016	0.41	0.032	0.81	0.362	9.20
C9145A	10	16	19/.0117	0.016	0.41	0.032	0.81	0.423	10.74
C9146A	15	16	19/.0117	0.016	0.41	0.032	0.81	0.485	12.31
C9147A	20	16	19/.0117	0.016	0.41	0.053	1.35	0.580	14.74
C9148A	25	16	19/.0117	0.016	0.41	0.053	1.35	0.641	16.28

* IEC Color Code: Brown, Blue, Green/Yellow

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- 100% Flexfoil® aluminum/polyester, foil facing in
- Stranded tinned copper drain wire

Jacket:

- Premium PVC
- Operating temperature range:
 - 30°C to +105°C (Type CM)
 - 30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant per UL 720-hr. UV test
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

**CAROL
BRAND**
EXZEL™
EXCEPTIONAL PERFORMANCE

General Cable

EXZEL™ MULTI-CONDUCTOR, FOIL/BRAID SHIELDED

UL 2464, NEC Type CM (UL), CSA CMG

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 70% min coverage

Jacket:

- Premium PVC
- Operating temperature range:
-30°C to +105°C (Type CM)
-30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

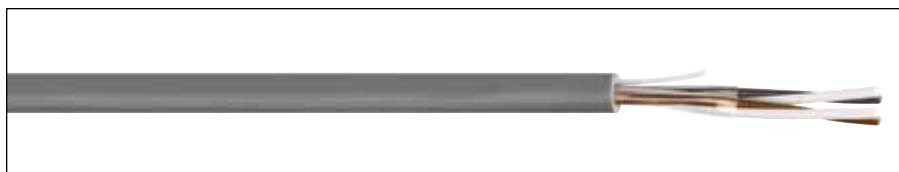
Packaging

- Please contact Customer Service for packaging and color options

PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9200A	2	24	7/32	0.010	0.25	0.032	0.81	0.184	4.67
C9201A	3	24	7/32	0.010	0.25	0.032	0.81	0.190	4.84
C9202A	4	24	7/32	0.010	0.25	0.032	0.81	0.202	5.13
C9203A	6	24	7/32	0.010	0.25	0.032	0.81	0.227	5.77
C9204A	8	24	7/32	0.010	0.25	0.032	0.81	0.240	6.10
C9205A	10	24	7/32	0.010	0.25	0.032	0.81	0.270	6.86
C9206A	15	24	7/32	0.010	0.25	0.032	0.81	0.300	7.62
C9207A	20	24	7/32	0.010	0.25	0.032	0.81	0.326	8.29
C9208A	25	24	7/32	0.010	0.25	0.032	0.81	0.356	9.04
C9209A	2	22	7/30	0.010	0.25	0.032	0.81	0.196	4.98
C9210A	3	22	7/30	0.010	0.25	0.032	0.81	0.203	5.17
C9211A	4	22	7/30	0.010	0.25	0.032	0.81	0.217	5.50
C9212A	6	22	7/30	0.010	0.25	0.032	0.81	0.245	6.22
C9213A	8	22	7/30	0.010	0.25	0.032	0.81	0.260	6.61
C9214A	10	22	7/30	0.010	0.25	0.032	0.81	0.294	7.47
C9215A	15	22	7/30	0.010	0.25	0.032	0.81	0.328	8.34
C9216A	20	22	7/30	0.010	0.25	0.032	0.81	0.358	9.10
C9217A	25	22	7/30	0.010	0.25	0.032	0.81	0.392	9.96
C9218A	2	20	7/28	0.016	0.41	0.032	0.81	0.234	5.94
C9219A	3	20	7/28	0.016	0.41	0.032	0.81	0.244	6.20
C9220A	4	20	7/28	0.016	0.41	0.032	0.81	0.263	6.67
C9221A	6	20	7/28	0.016	0.41	0.032	0.81	0.302	7.67
C9222A	8	20	7/28	0.016	0.41	0.032	0.81	0.323	8.21
C9223A	10	20	7/28	0.016	0.41	0.032	0.81	0.370	9.40
C9224A	15	20	7/28	0.016	0.41	0.032	0.81	0.418	10.61
C9225A	20	20	7/28	0.016	0.41	0.032	0.81	0.459	11.66
C9226A	25	20	7/28	0.016	0.41	0.032	0.81	0.506	12.85
C9227A*	2	18	16/30	0.016	0.41	0.032	0.81	0.254	6.45
C9228A	2	18	16/30	0.016	0.41	0.032	0.81	0.254	6.45
C9229A*	3	18	16/30	0.016	0.41	0.032	0.81	0.266	6.75
C9230A	3	18	16/30	0.016	0.41	0.032	0.81	0.266	6.75
C9231A	4	18	16/30	0.016	0.41	0.032	0.81	0.287	7.28
C9232A	6	18	16/30	0.016	0.41	0.032	0.81	0.332	8.43
C9233A	8	18	16/30	0.016	0.41	0.032	0.81	0.356	9.05
C9234A	10	18	16/30	0.016	0.41	0.032	0.81	0.410	10.41
C9235A	15	18	16/30	0.016	0.41	0.032	0.81	0.465	11.80
C9236A	20	18	16/30	0.016	0.41	0.032	0.81	0.512	13.01
C9237A	25	18	16/30	0.016	0.41	0.032	0.81	0.566	14.38
C9238A*	2	16	19/.0117	0.016	0.41	0.032	0.81	0.274	6.96
C9239A	2	16	19/.0117	0.016	0.41	0.032	0.81	0.274	6.96
C9240A*	3	16	19/.0117	0.016	0.41	0.032	0.81	0.287	7.29
C9241A	3	16	19/.0117	0.016	0.41	0.032	0.81	0.287	7.29
C9242A	4	16	19/.0117	0.016	0.41	0.032	0.81	0.311	7.90
C9243A	6	16	19/.0117	0.016	0.41	0.032	0.81	0.362	9.19
C9244A	8	16	19/.0117	0.016	0.41	0.032	0.81	0.389	9.89
C9245A	10	16	19/.0117	0.016	0.41	0.032	0.81	0.450	11.43
C9246A	15	16	19/.0117	0.016	0.41	0.032	0.81	0.512	12.99
C9247A	20	16	19/.0117	0.016	0.41	0.053	1.35	0.607	15.42
C9248A	25	16	19/.0117	0.016	0.41	0.053	1.35	0.679	17.25

* IEC Color Code: Brown, Blue, Green/Yellow





PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9300A	1	24	7/32	0.010	0.25	0.032	0.81	0.155	3.94
C9301A	2	24	7/32	0.010	0.25	0.032	0.81	0.211	5.37
C9302A	3	24	7/32	0.010	0.25	0.032	0.81	0.222	5.64
C9303A	4	24	7/32	0.010	0.25	0.032	0.81	0.242	6.13
C9304A	5	24	7/32	0.010	0.25	0.032	0.81	0.262	6.65
C9305A	6	24	7/32	0.010	0.25	0.032	0.81	0.283	7.20
C9306A	9	24	7/32	0.010	0.25	0.032	0.81	0.327	8.31
C9307A	11	24	7/32	0.010	0.25	0.032	0.81	0.355	9.03
C9308A	15	24	7/32	0.010	0.25	0.032	0.81	0.406	10.31
C9309A	1	22	7/30	0.010	0.25	0.032	0.81	0.149	3.79
C9310A	2	22	7/30	0.010	0.25	0.032	0.81	0.231	5.88
C9311A	3	22	7/30	0.010	0.25	0.032	0.81	0.244	6.19
C9312A	4	22	7/30	0.010	0.25	0.032	0.81	0.266	6.75
C9313A	5	22	7/30	0.010	0.25	0.032	0.81	0.289	7.34
C9314A	6	22	7/30	0.010	0.25	0.032	0.81	0.314	7.96
C9315A	15	22	7/30	0.010	0.25	0.032	0.81	0.453	11.51
C9316A	2	20	7/28	0.016	0.41	0.032	0.81	0.295	7.49
C9317A	3	20	7/28	0.016	0.41	0.032	0.81	0.312	7.93
C9318A	6	20	7/28	0.016	0.41	0.032	0.81	0.409	10.39
C9319A	9	20	7/28	0.016	0.41	0.032	0.81	0.479	12.16
C9320A	12	20	7/28	0.016	0.41	0.032	0.81	0.540	13.72
C9321A	2	18	16/30	0.016	0.41	0.032	0.81	0.329	8.35
C9322A	3	18	16/30	0.016	0.41	0.032	0.81	0.348	8.85
C9323A	6	18	16/30	0.016	0.41	0.032	0.81	0.459	11.67
C9324A	9	18	16/30	0.016	0.41	0.032	0.81	0.539	13.70
C9325A	12	18	16/30	0.016	0.41	0.053	1.35	0.652	16.56

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- Unshielded

Jacket:

- Premium PVC
- Operating temperature range:
 - 30°C to +105°C (Type CM)
 - 30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

EXZEL™ MULTI-PAIR, FOIL SHIELDED

UL 2464, NEC Type CM (UL), CSA CMG

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- 100% Flexfoil® aluminum/polyester, foil facing in
- Stranded tinned copper drain wire

Jacket:

- Premium PVC
- Operating temperature range:
-30°C to +105°C (Type CM)
-30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9400A	1	24	7/32	0.010	0.25	0.032	0.81	0.157	3.99
C9401A	2	24	7/32	0.010	0.25	0.032	0.81	0.215	5.47
C9402A	3	24	7/32	0.010	0.25	0.032	0.81	0.226	5.74
C9403A	4	24	7/32	0.010	0.25	0.032	0.81	0.246	6.24
C9404A	5	24	7/32	0.010	0.25	0.032	0.81	0.266	6.75
C9405A	6	24	7/32	0.010	0.25	0.032	0.81	0.287	7.30
C9406A	9	24	7/32	0.010	0.25	0.032	0.81	0.331	8.42
C9407A	11	24	7/32	0.010	0.25	0.032	0.81	0.359	9.13
C9408A	15	24	7/32	0.010	0.25	0.032	0.81	0.410	10.41
C9409A	19	24	7/32	0.010	0.25	0.032	0.81	0.432	10.96
C9410A	1	22	7/30	0.010	0.25	0.032	0.81	0.169	4.29
C9411A	2	22	7/30	0.010	0.25	0.032	0.81	0.235	5.98
C9412A	3	22	7/30	0.010	0.25	0.032	0.81	0.248	6.29
C9413A	4	22	7/30	0.010	0.25	0.032	0.81	0.270	6.85
C9414A	5	22	7/30	0.010	0.25	0.032	0.81	0.293	7.44
C9415A	6	22	7/30	0.010	0.25	0.032	0.81	0.318	8.06
C9416A	9	22	7/30	0.010	0.25	0.032	0.81	0.368	9.34
C9417A	11	22	7/30	0.010	0.25	0.032	0.81	0.400	10.15
C9418A	15	22	7/30	0.010	0.25	0.032	0.81	0.457	11.61
C9419A	19	22	7/30	0.010	0.25	0.032	0.81	0.482	12.24
C9420A	2	20	7/28	0.016	0.41	0.032	0.81	0.299	7.60
C9421A	3	20	7/28	0.016	0.41	0.032	0.81	0.316	8.03
C9422A	6	20	7/28	0.016	0.41	0.032	0.81	0.413	10.49
C9423A	9	20	7/28	0.016	0.41	0.032	0.81	0.483	12.26
C9424A	12	20	7/28	0.016	0.41	0.032	0.81	0.544	13.82
C9425A	19	20	7/28	0.016	0.41	0.053	1.35	0.683	17.35
C9426A	3	18	16/30	0.016	0.41	0.032	0.81	0.352	8.95
C9427A	6	18	16/30	0.016	0.41	0.032	0.81	0.463	11.77

EXZEL™ MULTI-PAIR, FOIL/BRAID SHIELDED

UL 2464, NEC Type CM (UL), CSA CMG



PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9500A	1	24	7/32	0.010	0.25	0.032	0.81	0.184	4.67
C9501A	2	24	7/32	0.010	0.25	0.032	0.81	0.242	6.10
C9502A	3	24	7/32	0.010	0.25	0.032	0.81	0.253	6.40
C9503A	4	24	7/32	0.010	0.25	0.032	0.81	0.273	6.88
C9504A	5	24	7/32	0.010	0.25	0.032	0.81	0.293	7.42
C9505A	6	24	7/32	0.010	0.25	0.032	0.81	0.314	7.98
C9506A	9	24	7/32	0.010	0.25	0.032	0.81	0.358	9.14
C9507A	11	24	7/32	0.010	0.25	0.032	0.81	0.386	9.78
C9508A	15	24	7/32	0.010	0.25	0.032	0.81	0.437	10.90
C9509A	19	24	7/32	0.010	0.25	0.032	0.81	0.459	11.61
C9510A	1	22	7/30	0.010	0.25	0.032	0.81	0.196	4.98
C9511A	2	22	7/30	0.010	0.25	0.032	0.81	0.262	6.60
C9512A	3	22	7/30	0.010	0.25	0.032	0.81	0.275	6.93
C9513A	4	22	7/30	0.010	0.25	0.032	0.81	0.297	7.49
C9514A	5	22	7/30	0.010	0.25	0.032	0.81	0.320	8.10
C9515A	6	22	7/30	0.010	0.25	0.032	0.81	0.345	8.74
C9516A	9	22	7/30	0.010	0.25	0.032	0.81	0.395	10.06
C9517A	11	22	7/30	0.010	0.25	0.032	0.81	0.427	10.77
C9518A	15	22	7/30	0.010	0.25	0.032	0.81	0.484	12.07
C9519A	19	22	7/30	0.010	0.25	0.032	0.81	0.509	12.88
C9520A	2	20	7/28	0.016	0.41	0.032	0.81	0.326	8.28
C9521A	3	20	7/28	0.016	0.41	0.032	0.81	0.343	8.74
C9522A	6	20	7/28	0.016	0.41	0.032	0.81	0.440	11.25
C9523A	9	20	7/28	0.016	0.41	0.032	0.81	0.510	13.08
C9524A	19	20	7/28	0.016	0.41	0.053	1.35	0.710	18.26
C9525A	2	18	16/30	0.016	0.41	0.032	0.81	0.360	9.02
C9526A	3	18	16/30	0.016	0.41	0.032	0.81	0.379	9.55
C9527A	6	18	16/30	0.016	0.41	0.032	0.81	0.490	12.40
C9528A	9	18	16/30	0.016	0.41	0.053	1.35	0.612	15.52

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 70% min coverage

Jacket:

- Premium PVC
- Operating temperature range:
 - 30°C to +105°C (Type CM)
 - 30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

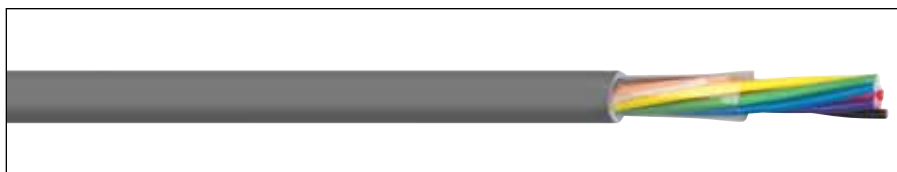
Packaging

- Please contact Customer Service for packaging and color options

EXZEL™ MULTI-CONDUCTOR, UNSHIELDED, HEAVY DUTY

UL 2343, NEC Type CM (UL), CSA CMG

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A on page 22

Shield:

- Unshielded

Jacket:

- Premium PVC
- Operating temperature range:
-30°C to +105°C (Type CM)
-30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2343 (UL: 80°C, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

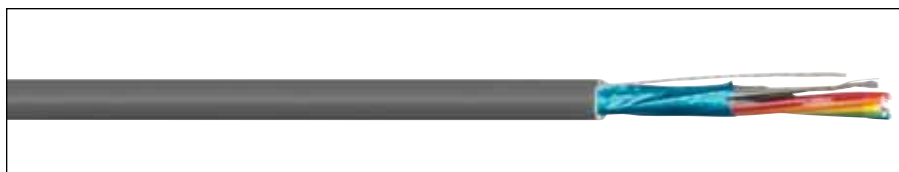
Packaging

- Please contact Customer Service for packaging and color options

PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9058A	7	24	7/32	0.010	0.25	0.063	1.6	0.260	6.60
C9059A	12	24	7/32	0.010	0.25	0.063	1.6	0.309	7.86
C9060A	15	24	7/32	0.010	0.25	0.063	1.6	0.333	8.46
C9061A	19	24	7/32	0.010	0.25	0.063	1.6	0.346	8.79
C9062A	2	22	7/30	0.010	0.25	0.063	1.6	0.229	5.82
C9063A	7	22	7/30	0.010	0.25	0.063	1.6	0.278	7.06
C9064A	12	22	7/30	0.010	0.25	0.063	1.6	0.334	8.49
C9065A	15	22	7/30	0.010	0.25	0.063	1.6	0.361	9.18
C9066A	19	22	7/30	0.010	0.25	0.063	1.6	0.376	9.55
C9067A	25	22	7/30	0.010	0.25	0.063	1.6	0.425	10.80
C9068A	2	20	7/28	0.010	0.25	0.063	1.6	0.243	6.17
C9069A	5	20	7/28	0.010	0.25	0.063	1.6	0.282	7.17
C9070A	7	20	7/28	0.010	0.25	0.063	1.6	0.299	7.59
C9071A	12	20	7/28	0.010	0.25	0.063	1.6	0.363	9.23
C9072A	15	20	7/28	0.010	0.25	0.063	1.6	0.394	10.01
C9073A	19	20	7/28	0.010	0.25	0.063	1.6	0.411	10.44
C9074A	25	20	7/28	0.010	0.25	0.063	1.6	0.467	11.86

EXZEL™ MULTI-CONDUCTOR, FOIL SHIELDED, HEAVY DUTY

UL 2343, NEC Type CM (UL), CSA CMG



PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9158A	3	24	7/32	0.010	0.25	0.063	1.6	0.225	5.73
C9159A	5	24	7/32	0.010	0.25	0.063	1.6	0.249	6.33
C9160A	7	24	7/32	0.010	0.25	0.063	1.6	0.262	6.65
C9161A	12	24	7/32	0.010	0.25	0.063	1.6	0.311	7.91
C9162A	15	24	7/32	0.010	0.25	0.063	1.6	0.335	8.51
C9163A	19	24	7/32	0.010	0.25	0.063	1.6	0.348	8.84
C9164A	2	22	7/30	0.010	0.25	0.063	1.6	0.231	5.87
C9165A	5	22	7/30	0.010	0.25	0.063	1.6	0.265	6.74
C9166A	7	22	7/30	0.010	0.25	0.063	1.6	0.280	7.11
C9167A	12	22	7/30	0.010	0.25	0.063	1.6	0.336	8.54
C9168A	15	22	7/30	0.010	0.25	0.063	1.6	0.363	9.23
C9169A	19	22	7/30	0.010	0.25	0.063	1.6	0.378	9.60
C9170A	2	20	7/28	0.010	0.25	0.063	1.6	0.245	6.22
C9171A	5	20	7/28	0.010	0.25	0.063	1.6	0.284	7.22
C9172A	7	20	7/28	0.010	0.25	0.063	1.6	0.301	7.65
C9173A	12	20	7/28	0.010	0.25	0.063	1.6	0.365	9.28
C9174A	15	20	7/28	0.010	0.25	0.063	1.6	0.396	10.06
C9175A	19	20	7/28	0.010	0.25	0.063	1.6	0.413	10.49

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A on page 22

Shield:

- 100% Flexfoil® aluminum/polyester, foil facing in
- Stranded tinned copper drain wire

Jacket:

- Premium PVC
- Operating temperature range: -30°C to +105°C (Type CM)
- 30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2343 (UL: 80°C, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

EXZEL™ MULTI-CONDUCTOR, FOIL/BRAID SHIELDED, HEAVY DUTY Electronics

UL 2343, NEC Type CM (UL), CSA CMG



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 70% min coverage

Jacket:

- Premium PVC
- Operating temperature range:
-30°C to +105°C (Type CM)
-30°C to +80°C (AWM)

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2343 (UL: 80°C, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

Packaging

- Please contact Customer Service for packaging and color options

PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9258A	5	24	7/32	0.010	0.25	0.063	1.6	0.276	7.01
C9259A	7	24	7/32	0.010	0.25	0.063	1.6	0.289	7.34
C9260A	12	24	7/32	0.010	0.25	0.063	1.6	0.338	8.60
C9261A	15	24	7/32	0.010	0.25	0.063	1.6	0.362	9.20
C9262A	19	24	7/32	0.010	0.25	0.063	1.6	0.375	9.53
C9263A	5	22	7/30	0.010	0.25	0.063	1.6	0.292	7.42
C9264A	7	22	7/30	0.010	0.25	0.063	1.6	0.307	7.80
C9265A	12	22	7/30	0.010	0.25	0.063	1.6	0.363	9.23
C9266A	15	22	7/30	0.010	0.25	0.063	1.6	0.390	9.91
C9267A	19	22	7/30	0.010	0.25	0.063	1.6	0.405	10.29
C9268A	4	20	7/28	0.010	0.25	0.063	1.6	0.296	7.51
C9269A	5	20	7/28	0.010	0.25	0.063	1.6	0.311	7.90
C9270A	7	20	7/28	0.010	0.25	0.063	1.6	0.328	8.33
C9271A	12	20	7/28	0.010	0.25	0.063	1.6	0.392	9.97
C9272A	15	20	7/28	0.010	0.25	0.063	1.6	0.423	10.75
C9273A	19	20	7/28	0.010	0.25	0.063	1.6	0.440	11.18

EXZEL™ MULTI-PAIR, FOIL/BRAID SHIELDED, HEAVY DUTY

UL 2343, NEC Type CM (UL), CSA CMG



PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9538A	5	24	7/32	0.010	0.25	0.063	1.6	0.355	9.01
C9539A	7	24	7/32	0.010	0.25	0.063	1.6	0.376	9.56
C9540A	12	24	7/32	0.010	0.25	0.063	1.6	0.459	11.67
C9541A	15	24	7/32	0.010	0.25	0.063	1.6	0.499	12.67
C9542A	19	24	7/32	0.010	0.25	0.063	1.6	0.521	13.22
C9543A	2	22	7/30	0.010	0.25	0.063	1.6	0.324	8.24
C9544A	5	22	7/30	0.010	0.25	0.063	1.6	0.382	9.70
C9545A	7	22	7/30	0.010	0.25	0.063	1.6	0.407	10.33
C9546A	12	22	7/30	0.010	0.25	0.063	1.6	0.501	12.73
C9547A	19	22	7/30	0.010	0.25	0.063	1.6	0.571	14.50
C9548A	4	20	7/28	0.010	0.25	0.063	1.6	0.387	9.84
C9549A	5	20	7/28	0.010	0.25	0.063	1.6	0.414	10.50
C9550A	7	20	7/28	0.010	0.25	0.063	1.6	0.442	11.22
C9551A	9	20	7/28	0.010	0.25	0.063	1.6	0.499	12.68
C9552A	15	20	7/28	0.010	0.25	0.063	1.6	0.601	15.28
C9553A	19	20	7/28	0.010	0.25	0.063	1.6	0.630	15.99

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded PVC
- Color per Chart C on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 70% min coverage

Jacket:

- Premium PVC
- Operating temperature range: -30°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant
- Nylon ripcord

Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2343 (UL: 80°C, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

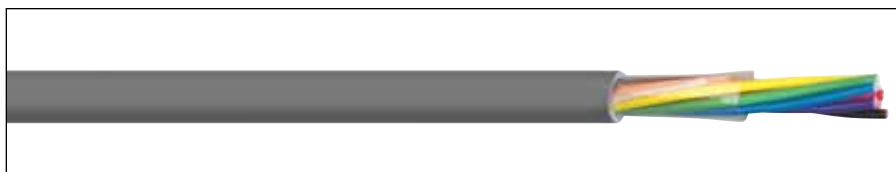
Packaging

- Please contact Customer Service for packaging and color options

EXZEL™ LSZH MULTI-CONDUCTOR, UNSHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- Unshielded

Jacket:

- Premium FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

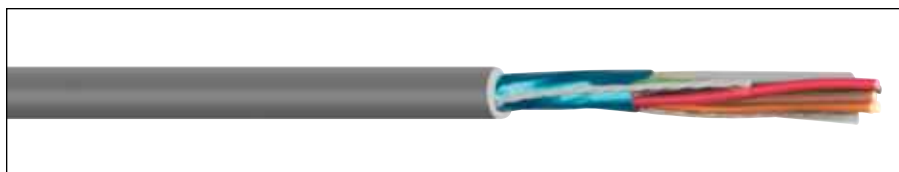
- Please contact Customer Service for packaging and color options

PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9000ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.160	4.06
C9001ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.167	4.23
C9002ZH	4	24	7/32	0.010	0.25	0.032	0.81	0.178	4.53
C9003ZH	6	24	7/32	0.010	0.25	0.032	0.81	0.204	5.18
C9004ZH	8	24	7/32	0.010	0.25	0.032	0.81	0.218	5.53
C9005ZH	10	24	7/32	0.010	0.25	0.032	0.81	0.248	6.30
C9006ZH	15	24	7/32	0.010	0.25	0.037	0.94	0.289	7.34
C9007ZH	20	24	7/32	0.010	0.25	0.037	0.94	0.316	8.02
C9008ZH	25	24	7/32	0.010	0.25	0.037	0.94	0.346	8.79
C9009ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.182	4.62
C9010ZH	3	22	7/30	0.010	0.25	0.037	0.94	0.190	4.81
C9011ZH	4	22	7/30	0.010	0.25	0.037	0.94	0.203	5.16
C9012ZH	6	22	7/30	0.010	0.25	0.037	0.94	0.232	5.89
C9013ZH	8	22	7/30	0.010	0.25	0.037	0.94	0.248	6.29
C9014ZH	10	22	7/30	0.010	0.25	0.042	1.07	0.292	7.42
C9015ZH	15	22	7/30	0.010	0.25	0.042	1.07	0.327	8.31
C9016ZH	20	22	7/30	0.010	0.25	0.042	1.07	0.358	9.08
C9017ZH	25	22	7/30	0.010	0.25	0.052	1.32	0.412	10.46
C9018ZH	2	20	7/28	0.016	0.41	0.037	0.94	0.222	5.64
C9019ZH	3	20	7/28	0.016	0.41	0.037	0.94	0.233	5.91
C9020ZH	4	20	7/28	0.016	0.41	0.037	0.94	0.251	6.39
C9021ZH	6	20	7/28	0.016	0.41	0.042	1.07	0.302	7.67
C9022ZH	8	20	7/28	0.016	0.41	0.042	1.07	0.324	8.22
C9023ZH	10	20	7/28	0.016	0.41	0.042	1.07	0.372	9.45
C9024ZH	15	20	7/28	0.016	0.41	0.052	1.32	0.441	11.20
C9025ZH	20	20	7/28	0.016	0.41	0.052	1.32	0.484	12.29
C9026ZH	25	20	7/28	0.016	0.41	0.052	1.32	0.532	13.51
C9027ZH*	2	18	16/30	0.016	0.41	0.037	0.94	0.238	6.05
C9028ZH	2	18	16/30	0.016	0.41	0.037	0.94	0.238	6.05
C9029ZH*	3	18	16/30	0.016	0.41	0.037	0.94	0.250	6.34
C9030ZH	3	18	16/30	0.016	0.41	0.037	0.94	0.250	6.34
C9031ZH	4	18	16/30	0.016	0.41	0.037	0.94	0.271	6.88
C9032ZH	6	18	16/30	0.016	0.41	0.042	1.07	0.326	8.28
C9033ZH	8	18	16/30	0.016	0.41	0.042	1.07	0.350	8.89
C9034ZH	10	18	16/30	0.016	0.41	0.052	1.32	0.424	10.77
C9035ZH	15	18	16/30	0.016	0.41	0.052	1.32	0.479	12.16
C9036ZH	20	18	16/30	0.016	0.41	0.052	1.32	0.526	13.36
C9037ZH	25	18	16/30	0.016	0.41	0.052	1.32	0.580	14.73
C9038ZH*	2	16	19/.0117	0.016	0.41	0.037	0.94	0.262	6.65
C9039ZH	2	16	19/.0117	0.016	0.41	0.037	0.94	0.262	6.65
C9040ZH*	3	16	19/.0117	0.016	0.41	0.037	0.94	0.276	7.00
C9041ZH	3	16	19/.0117	0.016	0.41	0.037	0.94	0.276	7.00
C9042ZH	4	16	19/.0117	0.016	0.41	0.042	1.07	0.310	7.87
C9043ZH	6	16	19/.0117	0.016	0.41	0.042	1.07	0.362	9.19
C9044ZH	8	16	19/.0117	0.016	0.41	0.052	1.32	0.410	10.41
C9045ZH	10	16	19/.0117	0.016	0.41	0.052	1.32	0.472	11.99
C9046ZH	15	16	19/.0117	0.016	0.41	0.052	1.32	0.535	13.59
C9047ZH	20	16	19/.0117	0.016	0.41	0.052	1.32	0.590	14.98
C9048ZH	25	16	19/.0117	0.016	0.41	0.062	1.57	0.672	17.07

* IEC Color Code: Brown, Blue, Green/Yellow.

EXZEL™ LSZH MULTI-CONDUCTOR, FOIL SHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)



PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9100ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.165	4.19
C9101ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.172	4.36
C9102ZH	4	24	7/32	0.010	0.25	0.032	0.81	0.183	4.66
C9103ZH	6	24	7/32	0.010	0.25	0.032	0.81	0.209	5.31
C9104ZH	8	24	7/32	0.010	0.25	0.032	0.81	0.223	5.66
C9105ZH	10	24	7/32	0.010	0.25	0.032	0.81	0.253	6.43
C9106ZH	15	24	7/32	0.010	0.25	0.037	0.94	0.294	7.46
C9107ZH	20	24	7/32	0.010	0.25	0.037	0.94	0.321	8.14
C9108ZH	25	24	7/32	0.010	0.25	0.037	0.94	0.351	8.92
C9109ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.187	4.75
C9110ZH	3	22	7/30	0.010	0.25	0.037	0.94	0.195	4.94
C9111ZH	4	22	7/30	0.010	0.25	0.037	0.94	0.208	5.28
C9112ZH	6	22	7/30	0.010	0.25	0.037	0.94	0.237	6.02
C9113ZH	8	22	7/30	0.010	0.25	0.037	0.94	0.253	6.41
C9114ZH	10	22	7/30	0.010	0.25	0.042	1.07	0.297	7.54
C9115ZH	15	22	7/30	0.010	0.25	0.042	1.07	0.332	8.43
C9116ZH	20	22	7/30	0.010	0.25	0.042	1.07	0.363	9.21
C9117ZH	25	22	7/30	0.010	0.25	0.052	1.32	0.417	10.59
C9118ZH	2	20	7/28	0.016	0.41	0.037	0.94	0.227	5.77
C9119ZH	3	20	7/28	0.016	0.41	0.037	0.94	0.238	6.03
C9120ZH	4	20	7/28	0.016	0.41	0.037	0.94	0.256	6.51
C9121ZH	6	20	7/28	0.016	0.41	0.042	1.07	0.307	7.80
C9122ZH	8	20	7/28	0.016	0.41	0.042	1.07	0.329	8.35
C9123ZH	10	20	7/28	0.016	0.41	0.042	1.07	0.377	9.58
C9124ZH	15	20	7/28	0.016	0.41	0.052	1.32	0.446	11.33
C9125ZH	20	20	7/28	0.016	0.41	0.052	1.32	0.489	12.41
C9126ZH	25	20	7/28	0.016	0.41	0.052	1.32	0.537	13.64
C9127ZH	2	18	16/30	0.016	0.41	0.037	0.94	0.243	6.17
C9128ZH*	2	18	16/30	0.016	0.41	0.037	0.94	0.243	6.17
C9129ZH	3	18	16/30	0.016	0.41	0.037	0.94	0.255	6.47
C9130ZH*	3	18	16/30	0.016	0.41	0.037	0.94	0.255	6.47
C9131ZH	4	18	16/30	0.016	0.41	0.037	0.94	0.276	7.00
C9132ZH	6	18	16/30	0.016	0.41	0.042	1.07	0.331	8.41
C9133ZH	8	18	16/30	0.016	0.41	0.042	1.07	0.355	9.02
C9134ZH	10	18	16/30	0.016	0.41	0.052	1.32	0.429	10.90
C9135ZH	15	18	16/30	0.016	0.41	0.052	1.32	0.484	12.28
C9136ZH	20	18	16/30	0.016	0.41	0.052	1.32	0.531	13.49
C9137ZH	25	18	16/30	0.016	0.41	0.052	1.32	0.585	14.86
C9138ZH	2	16	19/.0117	0.016	0.41	0.037	0.94	0.267	6.78
C9139ZH*	2	16	19/.0117	0.016	0.41	0.037	0.94	0.267	6.78
C9140ZH	3	16	19/.0117	0.016	0.41	0.037	0.94	0.281	7.12
C9141ZH*	3	16	19/.0117	0.016	0.41	0.037	0.94	0.281	7.12
C9142ZH	4	16	19/.0117	0.016	0.41	0.042	1.07	0.315	8.00
C9143ZH	6	16	19/.0117	0.016	0.41	0.042	1.07	0.367	9.32
C9144ZH	8	16	19/.0117	0.016	0.41	0.052	1.32	0.415	10.54
C9145ZH	10	16	19/.0117	0.016	0.41	0.052	1.32	0.477	12.12
C9146ZH	15	16	19/.0117	0.016	0.41	0.052	1.32	0.540	13.72
C9147ZH	20	16	19/.0117	0.016	0.41	0.052	1.32	0.595	15.11
C9148ZH	25	16	19/.0117	0.016	0.41	0.062	1.57	0.677	17.20

* IEC Color Code: Brown, Blue, Green/Yellow.

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH (Thermoplastic Polyolefin)
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- 100% Flexfoil®, aluminum/polyester/aluminum, foil facing in
- Stranded tinned copper drain wire

Jacket:

- Premium FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

- Please contact Customer Service for packaging and color options

**CAROL
BRAND**
EXZEL™
EXCEPTIONAL PERFORMANCE

General Cable

EXZEL™ LSZH MULTI-CONDUCTOR, FOIL/BRAID SHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)

Electronics



Product Construction:

Conductor:

- Full annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH (Thermoplastic Polyolefin)
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 85% min. coverage

Jacket:

- Premium FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

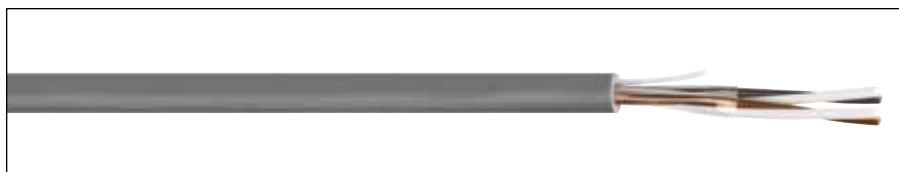
- Please contact Customer Service for packaging and color options

PART NUMBER	COND.	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9200ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.187	4.75
C9201ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.194	4.92
C9202ZH	4	24	7/32	0.010	0.25	0.032	0.81	0.205	5.22
C9203ZH	6	24	7/32	0.010	0.25	0.032	0.81	0.231	5.87
C9204ZH	8	24	7/32	0.010	0.25	0.032	0.81	0.245	6.21
C9205ZH	10	24	7/32	0.010	0.25	0.037	0.94	0.285	7.24
C9206ZH	15	24	7/32	0.010	0.25	0.037	0.94	0.316	8.02
C9207ZH	20	24	7/32	0.010	0.25	0.037	0.94	0.343	8.70
C9208ZH	25	24	7/32	0.010	0.25	0.037	0.94	0.373	9.47
C9209ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.209	5.31
C9210ZH	3	22	7/30	0.010	0.25	0.037	0.94	0.217	5.50
C9211ZH	4	22	7/30	0.010	0.25	0.037	0.94	0.230	5.84
C9212ZH	6	22	7/30	0.010	0.25	0.037	0.94	0.259	6.58
C9213ZH	8	22	7/30	0.010	0.25	0.037	0.94	0.275	6.97
C9214ZH	10	22	7/30	0.010	0.25	0.042	1.07	0.319	8.10
C9215ZH	15	22	7/30	0.010	0.25	0.042	1.07	0.354	8.99
C9216ZH	20	22	7/30	0.010	0.25	0.042	1.07	0.385	9.77
C9217ZH	25	22	7/30	0.010	0.25	0.052	1.32	0.444	11.28
C9218ZH	2	20	7/28	0.016	0.41	0.037	0.94	0.249	6.32
C9219ZH	3	20	7/28	0.016	0.41	0.037	0.94	0.260	6.59
C9220ZH	4	20	7/28	0.016	0.41	0.037	0.94	0.278	7.07
C9221ZH	6	20	7/28	0.016	0.41	0.042	1.07	0.329	8.36
C9222ZH	8	20	7/28	0.016	0.41	0.042	1.07	0.351	8.91
C9223ZH	10	20	7/28	0.016	0.41	0.052	1.32	0.419	10.64
C9224ZH	15	20	7/28	0.016	0.41	0.052	1.32	0.473	12.01
C9225ZH	20	20	7/28	0.016	0.41	0.052	1.32	0.516	13.10
C9226ZH	25	20	7/28	0.016	0.41	0.052	1.32	0.564	14.33
C9227ZH*	2	18	16/30	0.016	0.41	0.037	0.94	0.265	6.73
C9228ZH	2	18	16/30	0.016	0.41	0.037	0.94	0.265	6.73
C9229ZH*	3	18	16/30	0.016	0.41	0.037	0.94	0.277	7.03
C9230ZH	3	18	16/30	0.016	0.41	0.037	0.94	0.277	7.03
C9231ZH	4	18	16/30	0.016	0.41	0.042	1.07	0.308	7.82
C9232ZH	6	18	16/30	0.016	0.41	0.042	1.07	0.353	8.97
C9233ZH	8	18	16/30	0.016	0.41	0.042	1.07	0.377	9.58
C9234ZH	10	18	16/30	0.016	0.41	0.052	1.32	0.456	11.58
C9235ZH	15	18	16/30	0.016	0.41	0.052	1.32	0.511	12.97
C9236ZH	20	18	16/30	0.016	0.41	0.052	1.32	0.558	14.18
C9237ZH	25	18	16/30	0.016	0.41	0.062	1.57	0.632	16.05
C9238ZH*	2	16	19/.0117	0.016	0.41	0.042	1.07	0.299	7.59
C9239ZH	2	16	19/.0117	0.016	0.41	0.042	1.07	0.299	7.59
C9240ZH*	3	16	19/.0117	0.016	0.41	0.042	1.07	0.313	7.94
C9241ZH	3	16	19/.0117	0.016	0.41	0.042	1.07	0.313	7.94
C9242ZH	4	16	19/.0117	0.016	0.41	0.042	1.07	0.337	8.55
C9243ZH	6	16	19/.0117	0.016	0.41	0.052	1.32	0.409	10.39
C9244ZH	8	16	19/.0117	0.016	0.41	0.052	1.32	0.437	11.10
C9245ZH	10	16	19/.0117	0.016	0.41	0.052	1.32	0.504	12.80
C9246ZH	15	16	19/.0117	0.016	0.41	0.052	1.32	0.567	14.40
C9247ZH	20	16	19/.0117	0.016	0.41	0.062	1.57	0.642	16.30
C9248ZH	25	16	19/.0117	0.016	0.41	0.062	1.57	0.704	17.88

* IEC Color Code: Brown, Blue, Green/Yellow

EXZEL™ LSZH MULTI-PAIR, UNSHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)



PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9300ZH	1	24	7/32	0.010	0.25	0.032	0.81	0.160	4.06
C9301ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.220	5.58
C9302ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.231	5.87
C9303ZH	4	24	7/32	0.010	0.25	0.032	0.81	0.251	6.37
C9304ZH	5	24	7/32	0.010	0.25	0.037	0.94	0.282	7.15
C9305ZH	6	24	7/32	0.010	0.25	0.037	0.94	0.304	7.72
C9306ZH	9	24	7/32	0.010	0.25	0.037	0.94	0.350	8.88
C9307ZH	11	24	7/32	0.010	0.25	0.037	0.94	0.378	9.59
C9308ZH	15	24	7/32	0.010	0.25	0.047	1.19	0.449	11.42
C9309ZH	1	22	7/30	0.010	0.25	0.037	0.94	0.182	4.62
C9310ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.250	6.35
C9311ZH	3	22	7/30	0.010	0.25	0.037	0.94	0.263	6.67
C9312ZH	4	22	7/30	0.010	0.25	0.042	1.07	0.295	7.50
C9313ZH	5	22	7/30	0.010	0.25	0.042	1.07	0.319	8.10
C9314ZH	6	22	7/30	0.010	0.25	0.042	1.07	0.344	8.74
C9326ZH	9	22	7/30	0.010	0.25	0.052	1.32	0.416	10.57
C9327ZH	12	22	7/30	0.010	0.25	0.052	1.32	0.461	11.70
C9315ZH	15	22	7/30	0.010	0.25	0.052	1.32	0.507	12.87
C9328ZH	1	20	7/28	0.016	0.41	0.037	0.94	0.222	5.64
C9316ZH	2	20	7/28	0.016	0.41	0.042	1.07	0.327	8.31
C9317ZH	3	20	7/28	0.016	0.41	0.042	1.07	0.345	8.76
C9329ZH	4	20	7/28	0.016	0.41	0.042	1.07	0.377	9.57
C9330ZH	5	20	7/28	0.016	0.41	0.052	1.32	0.430	10.91
C9318ZH	6	20	7/28	0.016	0.41	0.052	1.32	0.465	11.81
C9319ZH	9	20	7/28	0.016	0.41	0.052	1.32	0.538	13.66
C9320ZH	12	20	7/28	0.016	0.41	0.052	1.32	0.600	15.24
C9331ZH	15	20	7/28	0.016	0.41	0.062	1.57	0.685	17.39
C9332ZH	1	18	16/30	0.016	0.41	0.037	0.94	0.238	6.05
C9321ZH	2	18	16/30	0.016	0.41	0.042	1.07	0.354	8.99
C9322ZH	3	18	16/30	0.016	0.41	0.042	1.07	0.374	9.49
C9333ZH	4	18	16/30	0.016	0.41	0.052	1.32	0.429	10.90
C9334ZH	5	18	16/30	0.016	0.41	0.052	1.32	0.466	11.83
C9323ZH	6	18	16/30	0.016	0.41	0.052	1.32	0.505	12.83
C9324ZH	9	18	16/30	0.016	0.41	0.052	1.32	0.586	14.89
C9325ZH	12	18	16/30	0.016	0.41	0.062	1.57	0.656	16.67
C9335ZH	15	18	16/30	0.016	0.41	0.062	1.57	0.748	19.00

Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH (Thermoplastic Polyolefin)
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- Unshielded

Jacket:

- Advanced FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

- Please contact Customer Service for packaging and color options

EXZEL™ LSZH MULTI-PAIR, FOIL SHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)

Electronics



Product Construction:

Conductor:

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH (Thermoplastic Polyolefin)
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- 100% Flexfoil®, aluminum/polyester/aluminum, foil facing in
- Stranded tinned copper drain wire

Jacket:

- Premium FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

- Please contact Customer Service for packaging and color options

PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9400ZH	1	24	7/32	0.010	0.25	0.032	0.81	0.165	4.19
C9401ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.225	5.71
C9402ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.236	5.99
C9403ZH	4	24	7/32	0.010	0.25	0.032	0.81	0.256	6.50
C9404ZH	5	24	7/32	0.010	0.25	0.037	0.94	0.287	7.28
C9405ZH	6	24	7/32	0.010	0.25	0.037	0.94	0.309	7.84
C9406ZH	9	24	7/32	0.010	0.25	0.037	0.94	0.355	9.01
C9407ZH	11	24	7/32	0.010	0.25	0.047	1.19	0.403	10.23
C9408ZH	15	24	7/32	0.010	0.25	0.047	1.19	0.454	11.54
C9410ZH	1	22	7/30	0.010	0.25	0.037	0.94	0.187	4.75
C9411ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.255	6.48
C9412ZH	3	22	7/30	0.010	0.25	0.037	0.94	0.268	6.80
C9413ZH	4	22	7/30	0.010	0.25	0.042	1.07	0.300	7.63
C9414ZH	5	22	7/30	0.010	0.25	0.042	1.07	0.324	8.22
C9415ZH	6	22	7/30	0.010	0.25	0.042	1.07	0.349	8.86
C9416ZH	9	22	7/30	0.010	0.25	0.052	1.32	0.421	10.70
C9417ZH	11	22	7/30	0.010	0.25	0.052	1.32	0.453	11.51
C9418ZH	15	22	7/30	0.010	0.25	0.052	1.32	0.512	13.00
C9450ZH	1	20	7/28	0.016	0.41	0.037	0.94	0.227	5.77
C9420ZH	2	20	7/28	0.016	0.41	0.042	1.07	0.332	8.44
C9421ZH	3	20	7/28	0.016	0.41	0.042	1.07	0.350	8.89
C9451ZH	4	20	7/28	0.016	0.41	0.042	1.07	0.382	9.69
C9452ZH	5	20	7/28	0.016	0.41	0.052	1.32	0.435	11.04
C9422ZH	6	20	7/28	0.016	0.41	0.052	1.32	0.470	11.93
C9423ZH	9	20	7/28	0.016	0.41	0.052	1.32	0.543	13.78
C9424ZH	12	20	7/28	0.016	0.41	0.052	1.32	0.587	14.92
C9453ZH	15	20	7/28	0.016	0.41	0.062	1.57	0.690	17.52
C9454ZH	1	18	16/30	0.016	0.41	0.037	0.94	0.243	6.17
C9455ZH	2	18	16/30	0.016	0.41	0.042	1.07	0.359	9.12
C9426ZH	3	18	16/30	0.016	0.41	0.042	1.07	0.379	9.62
C9456ZH	4	18	16/30	0.016	0.41	0.052	1.32	0.434	11.03
C9457ZH	5	18	16/30	0.016	0.41	0.052	1.32	0.471	11.96
C9427ZH	6	18	16/30	0.016	0.41	0.052	1.32	0.510	12.96
C9458ZH	9	18	16/30	0.016	0.41	0.052	1.32	0.591	15.02
C9459ZH	12	18	16/30	0.016	0.41	0.062	1.57	0.681	17.29
C9460ZH	15	18	16/30	0.016	0.41	0.062	1.57	0.753	19.12

EXZEL™ LSZH MULTI-PAIR, FOIL/BRAID SHIELDED

NEC Type CM, CMG, CL2 or PLTC-ER (UL)



PART NUMBER	PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER	
				INCHES	mm	INCHES	mm	INCHES	mm
C9500ZH	1	24	7/32	0.010	0.25	0.032	0.81	0.187	4.75
C9501ZH	2	24	7/32	0.010	0.25	0.032	0.81	0.247	6.27
C9502ZH	3	24	7/32	0.010	0.25	0.032	0.81	0.258	6.55
C9503ZH	4	24	7/32	0.010	0.25	0.037	0.94	0.288	7.31
C9504ZH	5	24	7/32	0.010	0.25	0.037	0.94	0.309	7.84
C9505ZH	6	24	7/32	0.010	0.25	0.037	0.94	0.331	8.40
C9506ZH	9	24	7/32	0.010	0.25	0.037	0.94	0.377	9.57
C9507ZH	11	24	7/32	0.010	0.25	0.047	1.19	0.425	10.79
C9508ZH	15	24	7/32	0.010	0.25	0.047	1.19	0.476	12.10
C9510ZH	1	22	7/30	0.010	0.25	0.037	0.94	0.209	5.31
C9511ZH	2	22	7/30	0.010	0.25	0.037	0.94	0.277	7.04
C9512ZH	3	22	7/30	0.010	0.25	0.042	1.07	0.300	7.61
C9513ZH	4	22	7/30	0.010	0.25	0.042	1.07	0.322	8.19
C9514ZH	5	22	7/30	0.010	0.25	0.042	1.07	0.346	8.78
C9515ZH	6	22	7/30	0.010	0.25	0.042	1.07	0.371	9.42
C9516ZH	9	22	7/30	0.010	0.25	0.052	1.32	0.443	11.25
C9517ZH	11	22	7/30	0.010	0.25	0.052	1.32	0.480	12.19
C9518ZH	15	22	7/30	0.010	0.25	0.052	1.32	0.539	13.69
C9529ZH	1	20	7/28	0.016	0.41	0.037	0.94	0.249	6.32
C9530ZH	2	20	7/28	0.016	0.41	0.042	1.07	0.354	9.00
C9521ZH	3	20	7/28	0.016	0.41	0.042	1.07	0.372	9.44
C9531ZH	4	20	7/28	0.016	0.41	0.052	1.32	0.424	10.76
C9532ZH	5	20	7/28	0.016	0.41	0.052	1.32	0.457	11.60
C9522ZH	6	20	7/28	0.016	0.41	0.052	1.32	0.497	12.62
C9523ZH	9	20	7/28	0.016	0.41	0.052	1.32	0.570	14.47
C9533ZH	12	20	7/28	0.016	0.41	0.062	1.57	0.652	16.56
C9534ZH	15	20	7/28	0.016	0.41	0.062	1.57	0.717	18.20
C9535ZH	1	18	16/30	0.016	0.41	0.037	0.94	0.265	6.73
C9525ZH	2	18	16/30	0.016	0.41	0.042	1.07	0.381	9.68
C9526ZH	3	18	16/30	0.016	0.41	0.052	1.32	0.421	10.69
C9536ZH	4	18	16/30	0.016	0.41	0.052	1.32	0.461	11.71
C9537ZH	5	18	16/30	0.016	0.41	0.052	1.32	0.498	12.64
C9527ZH	6	18	16/30	0.016	0.41	0.052	1.32	0.537	13.64
C9528ZH	9	18	16/30	0.016	0.41	0.062	1.57	0.638	16.21
C9538ZH	12	18	16/30	0.016	0.41	0.062	1.57	0.708	17.98
C9539ZH	15	18	16/30	0.016	0.41	0.062	1.57	0.780	19.81

Product Construction:**Conductor:**

- Fully annealed stranded tinned copper per ASTM B33

Insulation:

- Premium-grade, color-coded LSZH (Thermoplastic Polyolefin)
- Color per Chart C for 24 AWG and 22 AWG on page 22
- Color per Chart D for 20 AWG and larger on page 22

Shield:

- Dual foil with overall braided shield
- Aluminum/polyester/aluminum foil with 100% coverage
- Stranded tinned copper drain wire
- Tinned copper braided shield, 85% min. coverage

Jacket:

- Premium FR-LSZH (Thermoplastic Polyolefin)
- Operating temperature range: -40°C to +105°C

Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

Features:

- Oil-resistant (OIL RES I)
- Sunlight-resistant (SUN RES)
- Nylon ripcord
- UV-resistant

Compliances:

- NEC Article 725 Type PLTC-ER (22 AWG and larger, UL: 105°C, 300 V)
- (-ER): approved for Exposed Run as defined per NEC Article 725
- NEC Article 725 Type CL2 (UL: 105°C, 150 V)
- NEC Article 800 Type CM/CMG (UL: 105°C, 300 V)
- CE Compliant to IEC Directive 93/68/EEC
- RoHS Compliant Directive 2002/95/EC

Compliances: Flame & Smoke

- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)
- CSA FT4/IEEE 1202 flame test per UL 1685
- IEC 60332-1, 3, Cat A: Flammability
- IEC 61034-1, 2 and Mil-DTL-24643B and NES 711: Smoke Index Emission
- IEC 60754-1, 2 and Mil-DTL-24643B: Halogen Content and Acid Gas Generation

Packaging

- Please contact Customer Service for packaging and color options

COLOR CODE CHARTS

Multi-Conductor Cables

NO. OF CONDUCTORS	Color Chart A 24 AWG & 22 AWG	Color Chart B 20 AWG and Larger
	COLOR	COLOR
1	Black	Black
2	Brown	Red
3	Red	White
4	Orange	Green
5	Yellow	Orange
6	Green	Blue
7	Blue	Brown
8	Violet	Yellow
9	Slate	Violet
10	White	Slate
11	White/Black	Pink
12	White/Brown	Tan
13	White/Red	Red/Green
14	White/Orange	Red/Yellow
15	White/Yellow	Red/Black
16	White/Green	White/Black
17	White/Blue	White/Red
18	White/Violet	White/Green
19	White/Slate	White/Yellow
20	White/Black/Brown	White/Blue
21	White/Black/Red	White/Brown
22	White/Black/Orange	White/Orange
23	White/Black/Yellow	White/Slate
24	White/Black/Green	White/Violet
25	White/Black/Blue	White/Black/Red

IEC Color Chart

NO. OF CONDUCTORS	COLOR
1	Brown
2	Blue
3	Green/Yellow

Multi-Pair Cables

NO. OF PAIRS	Color Chart C 24 AWG & 22 AWG	Color Chart D 20 AWG and Larger
	COLOR	COLOR
1	White-Black	Black-Red
2	White-Brown	Black-White
3	White-Red	Black-Green
4	White-Orange	Black-Blue
5	White-Yellow	Black-Brown
6	White-Green	Black-Yellow
7	White-Blue	Black-Orange
8	White-Violet	Red-Green
9	White-Slate	Red-White
10	Black-Brown	Red-Blue
11	Black-Red	Red-Yellow
12	Black-Orange	Red-Brown
13	Black-Yellow	Red-Orange
14	Black-Green	Green-Blue
15	Black-Blue	Green-White

PART NUMBER INDEX

NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE
C9000A	6	C9034ZH	16	C9111ZH	17	C9146A	7	C9222ZH	18	C9300A	9	C9403ZH	20	C9506A	11
C9000ZH	16	C9035A	6	C9112A	7	C9146ZH	17	C9223A	8	C9300ZH	19	C9404A	10	C9506ZH	21
C9001A	6	C9035ZH	16	C9112ZH	17	C9147A	7	C9223ZH	18	C9301A	9	C9404ZH	20	C9507A	11
C9001ZH	16	C9036A	6	C9113A	7	C9147ZH	17	C9224A	8	C9301ZH	19	C9405A	10	C9507ZH	21
C9002A	6	C9036ZH	16	C9113ZH	17	C9148A	7	C9224ZH	18	C9302A	9	C9405ZH	20	C9508A	11
C9002ZH	16	C9037A	6	C9114A	7	C9148ZH	17	C9225A	8	C9302ZH	19	C9406A	10	C9508ZH	21
C9003A	6	C9037ZH	16	C9114ZH	17	C9158A	13	C9225ZH	18	C9303A	9	C9406ZH	20	C9509A	11
C9003ZH	16	C9038A	6	C9115A	7	C9159A	13	C9226A	8	C9303ZH	19	C9407A	10	C9510A	11
C9004A	6	C9038ZH	16	C9115ZH	17	C9160A	13	C9226ZH	18	C9304A	9	C9407ZH	20	C9510ZH	21
C9004ZH	16	C9039A	6	C9116A	7	C9161A	13	C9227A	8	C9304ZH	19	C9408A	10	C9511A	11
C9005A	6	C9039ZH	16	C9116ZH	17	C9162A	13	C9227ZH	18	C9305A	9	C9408ZH	20	C9511ZH	21
C9005ZH	16	C9040A	6	C9117A	7	C9163A	13	C9228A	8	C9305ZH	19	C9409A	10	C9512A	11
C9006A	6	C9040ZH	16	C9117ZH	17	C9164A	13	C9228ZH	18	C9306A	9	C9410A	10	C9512ZH	21
C9006ZH	16	C9041A	6	C9118A	7	C9165A	13	C9229A	8	C9306ZH	19	C9410ZH	20	C9513A	11
C9007A	6	C9041ZH	16	C9118ZH	17	C9166A	13	C9229ZH	18	C9307A	9	C9411A	10	C9513ZH	21
C9007ZH	16	C9042A	6	C9119A	7	C9167A	13	C9230A	8	C9307ZH	19	C9411ZH	20	C9514A	11
C9008A	6	C9042ZH	16	C9119ZH	17	C9168A	13	C9230ZH	18	C9308A	9	C9412A	10	C9514ZH	21
C9008ZH	16	C9043A	6	C9120A	7	C9169A	13	C9231A	8	C9308ZH	19	C9412ZH	20	C9515A	11
C9009A	6	C9043ZH	16	C9120ZH	17	C9170A	13	C9231ZH	18	C9309A	9	C9413A	10	C9515ZH	21
C9009ZH	16	C9044A	6	C9121A	7	C9171A	13	C9232A	8	C9309ZH	19	C9413ZH	20	C9516A	11
C9010A	6	C9044ZH	16	C9121ZH	17	C9172A	13	C9232ZH	18	C9310A	9	C9414A	10	C9516ZH	21
C9010ZH	16	C9045A	6	C9122A	7	C9173A	13	C9233A	8	C9310ZH	19	C9414ZH	20	C9517A	11
C9011A	6	C9045ZH	16	C9122ZH	17	C9174A	13	C9233ZH	18	C9311A	9	C9415A	10	C9517ZH	21
C9011ZH	16	C9046A	6	C9123A	7	C9175A	13	C9234A	8	C9311ZH	19	C9415ZH	20	C9518A	11
C9012A	6	C9046ZH	16	C9123ZH	17	C9200A	8	C9234ZH	18	C9312A	9	C9416A	10	C9518ZH	21
C9012ZH	16	C9047A	6	C9124A	7	C9200ZH	18	C9235A	8	C9312ZH	19	C9416ZH	20	C9519A	11
C9013A	6	C9047ZH	16	C9124ZH	17	C9201A	8	C9235ZH	18	C9313A	9	C9417A	10	C9520A	11
C9013ZH	16	C9048A	6	C9125A	7	C9201ZH	18	C9236A	8	C9313ZH	19	C9417ZH	20	C9521A	11
C9014A	6	C9048ZH	16	C9125ZH	17	C9202A	8	C9236ZH	18	C9314A	9	C9418A	10	C9521ZH	21
C9014ZH	16	C9058A	12	C9126A	7	C9202ZH	18	C9237A	8	C9314ZH	19	C9418ZH	20	C9522A	11
C9015A	6	C9059A	12	C9126ZH	17	C9203A	8	C9237ZH	18	C9315A	9	C9419A	10	C9522ZH	21
C9015ZH	16	C9060A	12	C9127A	7	C9203ZH	18	C9238A	8	C9315ZH	19	C9420A	10	C9523A	11
C9016A	6	C9061A	12	C9127ZH	17	C9204A	8	C9238ZH	18	C9316A	9	C9420ZH	20	C9523ZH	21
C9016ZH	16	C9062A	12	C9128A	7	C9204ZH	18	C9239A	8	C9316ZH	19	C9421A	10	C9524A	11
C9017A	6	C9063A	12	C9128ZH	17	C9205A	8	C9239ZH	18	C9317A	9	C9421ZH	20	C9525A	11
C9017ZH	16	C9064A	12	C9129A	7	C9205ZH	18	C9240A	8	C9317ZH	19	C9422A	10	C9525ZH	21
C9018A	6	C9065A	12	C9129ZH	17	C9206A	8	C9240ZH	18	C9318A	9	C9422ZH	20	C9526A	11
C9018ZH	16	C9066A	12	C9130A	7	C9206ZH	18	C9241A	8	C9318ZH	19	C9423A	10	C9526ZH	21
C9019A	6	C9067A	12	C9130ZH	17	C9207A	8	C9241ZH	18	C9319A	9	C9423ZH	20	C9527A	11
C9019ZH	16	C9068A	12	C9131A	7	C9207ZH	18	C9242A	8	C9319ZH	19	C9424A	10	C9527ZH	21
C9020A	6	C9069A	12	C9131ZH	17	C9208A	8	C9242ZH	18	C9320A	9	C9424ZH	20	C9528A	11
C9020ZH	16	C9070A	12	C9132A	7	C9208ZH	18	C9243A	8	C9320ZH	19	C9425A	10	C9528ZH	21
C9021A	6	C9071A	12	C9132ZH	17	C9209A	8	C9243ZH	18	C9321A	9	C9426A	10	C9529ZH	21
C9021ZH	16	C9072A	12	C9133A	7	C9209ZH	18	C9244A	8	C9321ZH	19	C9426ZH	20	C9530ZH	21
C9022A	6	C9073A	12	C9133ZH	17	C9210A	8	C9244ZH	18	C9322A	9	C9427A	10	C9531ZH	21
C9022ZH	16	C9074A	12	C9134A	7	C9210ZH	18	C9245A	8	C9322ZH	19	C9427ZH	20	C9532ZH	21
C9023A	6	C9100A	7	C9134ZH	17	C9211A	8	C9245ZH	18	C9323A	9	C9450ZH	20	C9533ZH	21
C9023ZH	16	C9100ZH	17	C9135A	7	C9211ZH	18	C9246A	8	C9323ZH	19	C9451ZH	20	C9534ZH	21
C9024A	6	C9101A	7	C9135ZH	17	C9212A	8	C9246ZH	18	C9324A	9	C9452ZH	20	C9535ZH	21
C9024ZH	16	C9101ZH	17	C9136A	7	C9212ZH	18	C9247A	8	C9324ZH	19	C9453ZH	20	C9536ZH	21
C9025A	6	C9102A	7	C9136ZH	17	C9213A	8	C9247ZH	18	C9325A	9	C9454ZH	20	C9537ZH	21
C9025ZH	16	C9102ZH	17	C9137A	7	C9213ZH	18	C9248A	8	C9325ZH	19	C9455ZH	20	C9538A	15
C9026A	6	C9103A	7	C9137ZH	17	C9214A	8	C9248ZH	18	C9326ZH	19	C9456ZH	20	C9538ZH	21
C9026ZH	16	C9103ZH	17	C9138A	7	C9214ZH	18	C9258A	14	C9327ZH	19	C9457ZH	20	C9539A	15
C9027A	6	C9104A	7	C9138ZH	17	C9215A	8	C9259A	14	C9328ZH	19	C9458ZH	20	C9539ZH	21
C9027ZH	16	C9104ZH	17	C9139A	7	C9215ZH	18	C9260A	14	C9329ZH	19	C9459ZH	20	C9540A	15
C9028A	6	C9105A	7	C9139ZH	17	C9216A	8	C9261A	14	C9330ZH	19	C9460ZH	20	C9541A	15
C9028ZH	16	C9105ZH	17	C9140A	7	C9216ZH	18	C9262A	14	C9331ZH	19	C9500A	11	C9542A	15
C9029A	6	C9106A	7	C9140ZH	17	C9217A	8	C9263A	14	C9332ZH	19	C9500ZH	21	C9543A	15
C9029ZH	16	C9106ZH	17	C9141A	7	C9217ZH	18	C9264A	14	C9333ZH	19	C9501A	11	C9544A	15
C9030A	6	C9107A	7	C9141ZH	17	C9218A	8	C9265A	14	C9334ZH	19	C9501ZH	21	C9545A	15
C9030ZH	16	C9107ZH	17	C9142A	7	C9218ZH	18	C9266A	14	C9335ZH	19	C9502A	11	C9546A	15
C9031A	6	C9108A	7	C9142ZH	17	C9219A	8	C9267A	14	C9400A	10	C9502ZH	21	C9547A	15
C9031ZH	16	C9108ZH	17	C9143A	7	C9219ZH	18	C9268A	14	C9400ZH	20	C9503A	11	C9548A	15
C9032A	6	C9109A	7	C9143ZH	17	C9220A	8	C9269A	14	C9401A	10	C9503ZH	21	C9549A	15
C9032ZH	16	C9109ZH	17	C9144A	7	C9220ZH	18	C9270A	14	C9401ZH	20	C9504A	11	C9550A	15
C9033A	6	C9110A	7	C9144ZH	17	C9221A	8	C9271A	14	C9402A	10	C9504ZH	21	C9551A	15
C9033ZH	16	C9110ZH	17	C9145A	7	C9221ZH	18	C9272A	14	C9402ZH	20	C9505A	11	C9552A	15
C9034A	6	C9111A	7	C9145ZH	17	C9222A	8	C9273A	14	C9403A	10	C9505ZH	21	C9553A	15



A commitment to achieving industry-leading standards and responding proactively to environmental global issues.

Global Reach



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