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## Xtra Guard 1 - Multiconductor and Multipair Cable

Data Transmission Cable



Alpha Wires Xtra Guard 1 is a general purpose electronic cable for internal or external wiring of OEM equipment. The Xtra Guard 1 range of cables offer unsurpassed flame and moisture resistance with fast, easy stripping of insulation and jacket. All cables are UL (Underwriters Laboratories) recognised and CSA (Canadian Standard Association) certified.

Applications for Xtra Guard 1 include:

- High technology applications in controlled environments
- Medical electronics
- Point of sale equipment
- Computer peripherals
- Industrial process control
- EIA RS232C applications (Multiconductor and Multipair foil and Suprashield versions)

Xtra Guard 1 cables are available with or without shielding. Shielded cables are available with two screening options.

Foil Screen - Aluminium/polyester foil facing in with stranded tinned copper drain wire equal in size to the conductor size of the cable.

**Suprashield** - Suprashield (foil/braid) shielding system consists of a unique triple laminate tape. An aluminium/polyester/ aluminium tape is bonded in one layer with a 25% overlap, in contact with a stranded tinned copper drain wire equal in size to the conductor size of the cable. A 70% coverage tinned copper wire braid shield is applied overall.

Suprashield Cable uses include:

- · Applications requiring ease of termination with use of stranded tinned copper drain wire
- Applications requiring protection from high-frequency interference
- Applications that require a cable with a high physical strength

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#### UL and CSA certification labels are provided with each reel.

Reel sizes and colours other than those listed are available to special order. Xtra Guard and Suprashield are registered trademarks of Alpha Wire.



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## Xtra Guard 1 - Multiconductor, Unshielded Cable

Data Transmission Cable



Xtra Guard 1 Multiconductor, Unshielded Cables are constructed with stranded tinned copper conductors insulated with PVC and sheathed with an extra premium grade grey PVC jacket.

A nylon ripcord is included under the jacket for ease of stripping. Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

Voltage Rating	300 V	Operating Temperature	-20°C to $+$ 80°C (UL AWM)
Insulation Thickness	0.25mm		-20°C to +75°C (UL CM)
Jacket Thickness	0.81mm		

These cables pass the UL VW-1 and CSA FT4 flame test.

For colour code please see Chart E.

UL and CSA certification labels are provided with each reel.

#### Technical Data

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Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5012C	5012C	2	4.0	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5013C	5013C	3	4.4	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5014C	5014C	4	4.7	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5016C	5016C	6	5.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5018C	5018C	8	5.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020C	50200	10	6.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/15C	5020/150	15	7.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/20C	5020/20C	20	7.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/25C	5020/250	25	8.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/30C	5020/300	30	9.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/40C	5020/40C	40	10.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5020/50C	5020/50C	50	11.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC



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## Xtra Guard 1 - Multiconductor, Foil Shielded Cable

Data Transmission Cable

Xtra Guard 1 Multiconductor, Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester foil facing in with a stranded tinned copper drain wire equal in size to the conductor of the cable and sheathed with an extra premium grade grey PVC jacket.

Applications include EIA RS232C Interface.

Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

Voltage Rating Insulation Thickness Jacket Thickness

300 V 0.25mm 0.81mm **Operating Temperature** 

-20°C to + 80°C (UL AWM) -20°C to + 75°C (UL CM)

These cables pass the UL VW-1 and CSA FT4 flame test.

For colour code please see Chart E.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5092C	5092C	2	4.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5093C	5093C	3	4.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5094C	5094C	4	4.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5096C	5096C	6	5.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5098C	5098C	8	5.6	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100C	5100C	10	6.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/15C	5100/15C	15	6.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/20C	5100/200	20	7.6	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/25C	5100/250	25	8.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/30C	5100/30C	30	9.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/40C	5100/40C	40	10.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/50C	5100/50C	50	11.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/60C	5100/60C	60	11.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5100/70C	5100/70C	70	12.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC



## Xtra Guard 1 - Multiconductor, Suprashielded Cable

Data Transmission Cable



Xtra Guard 1 Multiconductor, Suprashield Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC. Shielded by an aluminium/polyester/aluminium foil with a stranded tinned copper drain wire equal in size to the conductor of the cable, plus a 70% overall braid of tinned copper and sheathed with an extra premium grade grey PVC jacket.

Application include EIA RS232C Interface.

Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

Voltage Rating	300 V	<b>Operating Temperature</b>	-20°C to $+$ 80°C (UL AWM)
Insulation Thickness	0.25mm		-20°C to $+75$ °C (UL CM)
Jacket Thickness	0.81mm		
These cables pass the U	L VW-1 and CSA FT4 flame test.		

For colour code please see Chart E.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5112C	5112C	2	4.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5113C	5113C	3	4.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5114C	5114C	4	4.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5116C	5116C	6	5.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5118C	5118C	8	5.6	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120C	5120C	10	6.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/15C	5120/15C	15	6.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/20C	5120/200	20	7.6	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/25C	5120/250	25	8.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/30C	5120/300	30	9.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/40C	5120/40C	40	10.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5120/50C	5120/500	50	11.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC



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## Xtra Guard 1 - Multipair, Unshielded Cable

Data Transmission Cable

Xtra Guard 1 Multipair, Unshielded Cables are constructed with stranded tinned copper conductors insulated with PVC and sheathed with an extra premium grade grey PVC jacket.

Application include EIA RS232C Interface.

Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

Vol	tage Rating	300 V	Operating Temperature	-20°C to $+$ 80°C (UL AWM)
Ins	ulation Thickness	0.25mm		-20°C to $+75^{\circ}$ C (UL CM)
Jac	ket Thickness	0.81mm		
Ope	erating Temperature	-20°C to $+$ 80°C (UL AWM)		
		-20°C to $+75^{\circ}$ C (UL CM)		
Tho	ea cablae nace tha III	WW-1 and CSA FT4 flame test		

These cables pass the UL VW-1 and CSA F14 flame test. For colour code please see Chart E.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm²	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5261C	5261C 🥣	1	4.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5262C	5262C	2	5.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5263C	5263C	3	5.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5264C	5264C	4	6.4	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5265C	5265C	5	6.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5266C	5266C	6	7.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269C	52690	9	8.4	24 🌙	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269/11C	5269/110	11	9.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269/15C	5269/15C	15	10.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269/27C	5269/270	27	12.7	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269/77C	5269/770	77	21.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC

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## Xtra Guard 1 - Multipair, Foil Shielded Cable

Data Transmission Cable

Xtra Guard 1 Multipair, Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC. Shielded by an aluminium/polyester foil facing in with a stranded tinned copper drain wire equal in size to the conductor of the cable and sheathed with an extra premium grade grey PVC jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Application include EIA RS232C Interface.

Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

Voltage Rating	300 V	Operating Temperature	-20°C to $+$ 80°C (UL AWM)
Insulation Thickness	0.25mm		-20°C to $+75^{\circ}$ C (UL CM)
Jacket Thickness	0.81mm		

These cables pass the UL VW-1 and CSA FT4 flame test.

For colour code please see Chart B.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5491C	5491C	1	4.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5492C	5492C	2	5.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5493C	5493C	3	5.9	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5494C	5494C	4	6.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5495C	5495C	5	7.0	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5496C	5496C	6	7.4	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5499C	5499C	9	8.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5499/11C	5499/110	11	9.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5269/15C	5269/15C	15	10.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5499/19C	5499/190	19	11.2	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5499/27C	5499/27C	27	12.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC



## Xtra Guard 1 - Multipair, Suprashielded Cable

Data Transmission Cable



Xtra Guard 1 Multipair, Suprashield Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC. Shielded by an aluminium/polyester/aluminium foil with a stranded tinned copper drain wire equal in size to the conductor of the cable, plus a 70% overall braid of tinned copper and sheathed with an extra premium grade grey PVC jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Application include EIA RS232C Interface.

Cables are manufactured to UL styles, CM and AWM style 2464 and CSA CMG FT4.

- Voltage Rating 300 V **Operating Temperature**  $-20^{\circ}$ C to  $+80^{\circ}$ C (UL AWM) Insulation Thickness 0.25mm  $-20^{\circ}$ C to  $+75^{\circ}$ C (UL CM) Jacket Thickness 0.81mm
- These cables pass the UL W-1 and CSA FT4 flame test. For colour code please see Chart B.

#### UL and CSA certification labels are provided with each reel.

#### Technical Data

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16	A	5271C	5271C	1	4.6	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
	A	52720	52720	2	5.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
17	A	5273C	5273C	3	6.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
17	A	5274C	5274C	4	7.0	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
	A	5275C	5275C	5	7.5	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
18	A	52760	5276C	6	8.0	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
	A	5279C	5279C	9	9.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
	A	5279/110	5279/11C	11	9.7	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
19	A	5279/15C	5279/15C	15	10.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
	A	5279/19C	5279/19C	19	11.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
20	A	5279/270	5279/27C	27	13.4	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
20	A	5279/510	5279/510	51	18.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC





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## Alpha Wire Products Xtra Guard 2 - Multiconductor and Multipair Cable

Data Transmission Cable

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Alpha Wires Xtra Guard 2 is an industrial strength extra rugged electronic cable, for external wiring of OEM equipment where cables need protection against their operating environment.

Constructed using PVC insulated tinned copper conductors with a variety of screening options and a specially formulated extra rugged Polyurethane (PUR) jacket. All cables in this range are UL (Underwriters Laboratories) recognised and CSA (Canadian Standards Association) certified.

Benefits of the Xtra Guard 2 Extra Rugged Polyurethane Ja	acket Over PVC jacketed Cables Include:	6
Twice the tensile strength of PVC	Ultraviolet (UV) stability	7
• Three times the tear and abrasion resistance of PVC	• Resistant to fungus growth in damp environments	1
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Typical Applications for Xtra Guard 2 Include:		
CNC machine centres	<ul> <li>Packaging machinery</li> </ul>	9
<ul> <li>Automotive assembly plant operations</li> </ul>	Petrochemical plant operations	10
<ul> <li>Military ground support systems</li> </ul>	• Geophysical exploration equipment	10
Many other applications that require protection against oils, f	uels, solvents or water.	11
Xtra Guard 2 cables are available with or without shielding. S	hielded cables are available with two screening options.	12
Foil Screen - Aluminium/polyester foil facing in with strande the cable.	d tinned copper drain wire equal in size to the conductor size of	13
<b>Suprashield</b> - Suprashield (foil/braid) shielding system consi aluminium tape is bonded in one layer with a 25% overlap, ir the conductor size of the cable. A 70% coverage tinned coppe	n contact with a stranded tinned copper drain wire equal in size to	14
	si wite braid sinela is applied overall.	15
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## Xtra Guard 2 - Multiconductor and Multipair Cable

Data Transmission Cable

#### Suprashield Cable Uses Include:

- Applications requiring ease of termination with use of stranded tinned copper drain wire
- Applications requiring protection from high-frequency interference
- Applications that require a cable with a high physical strength
- UL and CSA certification labels are provided with each reel. Reel sizes and colours other than those listed are available to special order. Xtra Guard and Suprashield are registered trademarks of Alpha Wire.

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## Xtra Guard 2 - Multiconductor, Unshielded Cable 24 AWG

Data Transmission Cable

Xtra Guard 2 Multiconductor, Unshielded Cables are constructed with stranded tinned copper conductors insulated with PVC and sheathed with a black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping. Cables are manufactured to UL styles, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to $+90°$ C

These cables pass the UL VW-1 and CSA FT4 flame test.

For colour code please see Chart E.

UL and CSA certification labels are provided with each reel.

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Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm²	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25012	25012	2	4.0	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25013	25013	3	4.4	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25014	25014	4	4.7	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25016	25016	6	5.3	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25018	25018	8	5.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25020	25020	10	6.2	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25020/15	25020/15	15	7.1	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25020/20	25020/20	20	7.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25020/25	25020/25	25	8.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR



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## Xtra Guard 2 - Multiconductor, Unshielded Cable 18 AWG

Data Transmission Cable

Xtra Guard 2 Multiconductor, Unshielded Cables are constructed with stranded tinned copper conductors insulated with PVC and sheathed with a black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping. Cables are manufactured to UL styles, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V
Insulation Thickness	0.43n

I mm Jacket Thickness **Operating Temperature**  0 81mm -20°C to +90°C

These cables pass the UL W-1 and CSA FT4 flame test.

For colour code please see Chart D.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm²	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25062	25062	2	5.8	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25062/1#	25062/1#	2	5.8	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25063	25063	3	6.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25063/1#	25063/1#	2	6.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25064	25064	4	6.6	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25066	25066	6	7.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25068	25068	8	8.4	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25070	25070	10	9.8	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25070/15	25070/15	15	11.5	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25070/20	25070/20	20	12.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25070/25	25070/25	25	14.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR

= Harmonised core colours #

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## Xtra Guard 2 - Multiconductor, Foil Shielded Cable 24 AWG

Data Transmission Cable

Xtra Guard 2 Multiconductor, Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester foil facing in with a stranded tinned copper drain wire equal in size to the conductor of the cable and sheathed with an black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Cables are manufactured to UL style, CM and AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to +90°C

These cables pass the UL VW-1 and CSA FT4 flame test.

For colour code please see Chart E.

#### UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25092	25092	2	4.1	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25093	25093	3	4.3	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25094	25094	4	4.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25096	25096	6	5.1	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25098	25098	8	5.6	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25100	25100	10	6.3	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25100/15	25100/15	15	6.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25100/20	25100/20	20	7.6	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25100/25	25100/25	25	8.3	24	7/32	0.23	Black	0.81	0.25	PVC	PUR

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## Xtra Guard 2 - Multiconductor, Foil Shielded Cable 18 AWG

#### Data Transmission Cable

Xtra Guard 2 Multiconductor, Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester foil facing in with a stranded tinned copper drain wire equal in size to the conductor of the cable and sheathed with an black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Cables are manufactured to UL style, CM and AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to $+90°$ C

These cables pass the UL VW-1 and CSA FT1 flame tests.

For colour code please see Chart D.

UL and CSA certification labels are provided with each reel.

#### Technical Data

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Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Materia
A25382	25382	2 🧹	5.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25382/1#	25382/1#	2	5.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25383	25383	3	6.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25383/1#	25383/1#	3	6.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25384	25384	4	6.6	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25386	25386	6	7.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25388	25388	8	8.3	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390	25390	10	9.9	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/15	25390/15	15	11.5	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/20	25390/20	20	13.0	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/25	25390/25	25	14.2	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/30	25390/30	30	16.4	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/40	25390/40	40	18.3	18	16/30	0.81	Black	0.81	0.43	PVC	PUR
A25390/50	25390/50	50	20.1	18	16/30	0.81	Black	0.81	0.43	PVC	PUR

#=Harmonised core colours

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#### Alpha Wire Products Xtra Guard 2 - Multiconductor, Suprashield Cable

Data Transmission Cable

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Xtra Guard 2 Multiconductor, Suprashield Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester foil with a stranded tinned copper drain wire equal in size to the conductor of the cable, plus a 70% overall braid of tinned copper and sheathed with a black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Cables are manufactured to UL style, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to +90°C

These cables pass the UL VW-1 and CSA FT1 flame test.

For colour code please see Chart E.

#### UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Cores	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25112	25112	2	4.6	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25113	25113	3	4.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25114	25114	4	5.4	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25116	25116	6	5.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25118	25118	8	6.4	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120	25120	10	6.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/15	25120/15	15	7.6	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/20	25120/20	20	8.4	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/25	25120/25	25	9.2	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/30	25120/30	30	9.7	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/40	25120/40	40	10.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25120/50	25120/50	50	11.7	24	7/32	0.23	Black	0.81	0.25	PVC	PUR



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## Xtra Guard 2 - Multipair, Foil Shielded Cable, 24 AWG (0.23mm<sup>2</sup>) 7/32 AWG PVC Insulated, PUR Sheathed

Data Transmission Cable

Xtra Guard 2 Multipair, Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester foil facing in with a stranded tinned copper drain wire equal in size to the conductor of the cable and sheathed with a black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Cables are manufactured to UL style, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating Insulation Thickness

300 V 0.25mm Jacket Thickness **Operating Temperature**  0.81mm -20°C to +90°C

These cables pass the UL WV-1 and CSA FT1 flame tests. For colour code please see Chart B.

#### UL and CSA certification labels are provided with each reel.

#### Technical Data

11	Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
12	A25491	25491	1	4.1	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
	A25492	25492	2	5.2	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
13	A25493	25493	3	5.9	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
	A25494	25494	4	6.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
	A25495	25495	5	7.0	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
14	A25496	25496	6	7.4	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
	A25499	25499	9	8.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
15	A25499/11	25499/11	11	9.2	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
IJ	A25499/15	25499/15	15	10.3	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
	A25499/19	25499/19	19	11.2	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
16	A25499/27	25499/27	27	12.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR

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## Xtra Guard 2 - Multipair, Suprashield Shielded Cable

Data Transmission Cable

Xtra Guard 2 Multipair, Suprashield Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester/aluminium foil with a stranded tinned copper drain wire equal in size to the conductor of the cable, plus a 70% overall braid of tinned copper and sheathed with a black extra rugged Polyurethane (PUR) jacket.

Application include EIA RS232C Interface.

Cables are manufactured to UL style, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to +90°C

These cables pass the UL VW-1 and CSA FT1 flame tests.

For colour code please see Chart B.

#### UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25271	25271	1	4.6	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25272	25272	2	5.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25273	25273	3	6.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25274	25274	4	7.0	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25275	25275	5	7.5	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25276 🥥	25276	6	8.0	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25279	25279	9	9.1	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25279/11	25279/11	11	9.7	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25279/15	25279/15	15	10.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR
A25279/19	25279/19	19	11.8	24	7/32	0.23	Black	0.81	0.25	PVC	PUR

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## Xtra Guard 2 - Multipair, Suprashield Shielded Cable

Data Transmission Cable

Xtra Guard 2 Multipair, Suprashield Cables are constructed with stranded tinned copper conductors insulated with PVC, shielded by an aluminium/polyester/aluminium foil with a stranded tinned copper drain wire equal in size to the conductor of the cable, plus a 70% overall braid of tinned copper and sheathed with a black extra rugged Polyurethane (PUR) jacket.

A nylon ripcord is included under the jacket for ease of stripping.

Cables are manufactured to UL style, AWM style 20668 and CSA AWM 1A/B II A/B FT1.

Voltage Rating	300 V	Jacket Thickness	0.81mm
Insulation Thickness	0.25mm	Operating Temperature	-20°C to $+90°$ C

These cables pass the UL VW-1 and CSA FT1 flame tests.

For colour code please see Chart B.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A25121	25121	1 <	5.1	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25122	25122	2	6.3	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25123	25123 🥒	3	7.1	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25124	25124	4	7.8	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25125	25125	5	8.3	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25126	25126	6	8.9	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25129	25129	9	10.1	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25129/11	25129/11	11	10.9	22	7/30	0.35	Black	0.81	0.25	PVC	PUR
A25129/15	25129/15	15	12.1	22	7/30	0.35	Black	0.81	0.25	PVC	PUR



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## Multipair Foil Shielded Cable Communication and Control Cables

Data Transmission Cable

Alpha Wires range of Multipair Communication and Control Cables, are a range of general purpose electronic cables for the internal or external wiring of OEM equipment.

All cables in this range are UL (Underwriters Laboratories) recognised and CSA (Canadian Standards Association) certified.

Alpha Wires Communication and Control Cables are available with two screening options.

#### **Overall Foil Screen**

An aluminium/polyester foil wrapped collectively over the conductors with stranded tinned copper drain wire under the aluminium/polyester foil.

#### **Individual Foil Screen**

An aluminium/polyester foil wrapped around each pair together with a tinned copper drain wire.

UL and CSA certification labels are provided with each reel.

Reel sizes and colours other than those listed are available to special order.

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## Multipair, Overall Foil Shielded Cable

Data Transmission Cable

Multipair Overall Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with PVC, an aluminium/polyester foil screen with a 24 AWG stranded tinned copper drain wire and sheathed with a grey PVC jacket.

Cables are manufactured to UL style, AWM style 2464 and CSA CMG FT4.

Voltage Rating Insulation Thickness	300 V 0.25mm	Operating Temperature	-20°C to $+80$ °C (UL AWM) -20°C to $+75$ °C (UL CM)
Jacket Thickness	Up to 4 pairs 0.81mm 5 to 8 pairs 0.89mm		
	9 pairs 0.94mm		
	10 to 15 pairs 1.02mm		
These cables pass the	UL VW-1 and CSA FT1 flame test.		

For colour code please see Chart K.

# For 50480/50C please see Chart C.

UL and CSA certification labels are provided with each reel.

#### Technical Data

Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm²	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A5471C	5471C	1	4.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5472C	5472C	2	5.3	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5473C	5473C	3	5.8	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5474C	5474C	4	6.1	24	7/32	0.23	Grey	0.81	0.25	PVC	PVC
A5475C	5475C	5	6.9	24	7/32	0.23	Grey	0.89	0.25	PVC	PVC
A5476C	5476C	6	7.6	24	7/32	0.23	Grey	0.89	0.25	PVC	PVC
A5477C	5477C	7	7.6	24	7/32	0.23	Grey	0.89	0.25	PVC	PVC
A5478C	5478C	8	8.1	24	7/32	0.23	Grey	0.89	0.25	PVC	PVC
A5479C	5479C	9	8.6	24	7/32	0.23	Grey	0.94	0.25	PVC	PVC
A5480C	5480C	10	9.6	24	7/32	0.23	Grey	1.02	0.25	PVC	PVC
A5480/15C	5480/150	15	10.8	24	7/32	0.23	Grey	1.02	0.25	PVC	PVC
A5480/19C	5480/19C	19	11.4	24	7/32	0.23	Grey	1.02	0.25	PVC	PVC
A5480/25C	5480/250	25	13.4	24	7/32	0.23	Grey	1.14	0.25	PVC	PVC
A5480/50C#	5480/50C#	50	17.8	24	7/32	0.23	Grey	1.35	0.25	PVC	PVC



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## Multipair, Individually Foil Shielded Cable

Data Transmission Cable

Multipair Individually Foil Shielded Cables are constructed with stranded tinned copper conductors insulated with polypropylene (PP), each pair is shielded with an aluminium/polyester foil screen together with a 22 AWG stranded tinned copper drain wire and sheathed with a grey PVC jacket.

Cables are manufactured to UL style, AWM style 2493 and CSA CMG FT4.

Voltage Rating	300 V	Operating Temperature	-20°C to $+60$ °C (UL AWM)
Insulation Thickness	0.25mm		-20°C to $+75$ °C (UL CM)
Jacket Thickness	1.14mm		

#### Typical Electrical Characteristics

Capacitance between conductors in a pair of 28pF/ft. Capacitance between one conductor and other conductors connected to shields 57pF/ft. Impedance @ 1 MHz 55 $\Omega$ .

Nominal Attenuation @ 20°C (dB/100ft). 10kHz 0.13dB; 100kHz 0.42dB; 1MHz 1.40dB; 10MHz 4.20dB.

These cables pass the UL WV-1 and CSA FT1 flame test.

For colour code please see Chart A.

Technical Data

UL and CSA certification labels are provided with each reel.

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Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A6010C	6010C	3	8.0	22	7/30	0.35	Grey	1.14	0.25	PP	PVC
A6012C	6012C	6	9.9	22	7/30	0.35	Grey	1.14	0.25	PP	PVC
A6014C	6014C	9	11.6	22	7/30	0.35	Grey	1.14	0.25	PP	PVC
A6016C	6016C	11	12.1	22	7/30	0.35	Grey	1.14	0.25	PP	PVC
A6017C	6017C	12	12.3	22	7/30	0.35	Grey	1.14	0.25	PP	PVC
A6018C	6018C	15	14.3	22	7/30	0.35	Grey	1.52	0.25	PP	PVC
A6019C	6019C	17	15.6	22	7/30	0.35	Grey	1.52	0.25	PP	PVC
A6020C	60200	19	16.0	22	7/30	0.35	Grey	1.52	0.25	PP	PVC
A6022C	6022C	27	17.9	22	7/30	0.35	Grey	1.52	0.25	PP	PVC

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## Alpha-Byte Multipair, Individually Foil Shielded Data Cables

Data Transmission Cable

Alpha Wires Alpha-Byte range are of Multipair, Individually Foil Shielded low-capacitance electronic cables for the internal or external wiring/interface with/of OEM equipment. All cables in this range are UL (Underwriters Laboratories) recognised and CSA (Canadian Standards Association) certified.

Alpha-Byte offers low-capacitance and extended distance transmission together with other improved transmission characteristics over traditional Multipair cables, with its unique structure it enables cable pairs to exhibit a lower dielectric constant - a key electrical characteristic resulting in less loss, lower signal distortion and higher transmission speeds.

Applications for Alpha-Byte Data Cables include:

- Precision Audio, Pulse or RF signal transmission applications where low distortion and high speed data rates are required
- External interconnection of computer, point of sale or electronic equipment in areas where high levels of noise interference are anticipated
- EIA RS232C, 422, 423 and 449 interface applications
- Alpha-Byte cables are offered with an Individual Foil Screen over each pair the screen consists of an aluminium/polyester foil with the foil facing inwards wrapped around each pair together with a tinned copper drain wire.
- UL and CSA certification labels are provided with each reel.
- Reel sizes and colours other than those listed are available to special order.
  - Alpha-Byte is a registered trademark of Alpha Wire.





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## Alpha-Byte Multipair, Individually Foil Shielded Data Cables

Data Transmission Cable

Multipair Individually Foil Shielded Cables are constructed with stranded tinned copper constructors insulated with polypropylene (PP), each pair is shielded with an aluminium/polyester foil screen together with a 24 AWG stranded tinned copper drain wire and sheathed with a grey PVC jacket.

Cables are manufactured to UL style, AWM style 2493, UL style CM and CSA PCC FT4.

Voltage Rating	300 V - CM	Operating Temperature	-20°C to $+60^\circ$ C - UL AWM
	30 V - AWM		-20°C to $+75^{\circ}$ C - UL CM
Insulation Thickness	0.58mm		
Jacket Thickness	1.22mm		

#### **Typical Electrical Characteristics**

Capacitance between conductors in a pair 12.5pF/ft. Capacitance between conductors in a pair 41pF/m. Capacitance between one conductors and other conductors connected to shields 22pF/ft. Capacitance between one conductors and other conductors connected to shields 72.5pF/m. Impedance @ 1MHz 100 $\Omega$ .

All cables in this range are UL (Underwriters Laboratories) recognised and CSA (Canadian Standards Association) certified.

#### UL and CSA certification labels are provided with each reel.

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Anixter Number	Alpha Number	Number of Pairs	Nominal Overall Diameter mm	AWG	Stranding AWG	Nominal Cross Sectional Area mm <sup>2</sup>	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm		Jacket Material
A6073C	6073C	3	9.4	24	7/32	0.23	Grey	1.22	0.58	PP	PVC
A6076C	6076C	6	12.2	24	7/32	0.23	Grey	1.22	0.58	PP	PVC
A6079C	6079C	9	15.0	24	7/32	0.23	Grey	1.65	0.58	PP	PVC
A6079/11C	6079/11C	11	16.2	24	7/32	0.23	Grey	1.65	0.58	PP	PVC
A6079/12C	6079/120	12	16.8	24	7/32	0.23	Grey	1.65	0.58	PP	PVC
A6079/15C	6079/15C	15	18.3	24	7/32	0.23	Grey	1.65	0.58	PP	PVC
A6079/27C	6079/270	27	24.1	24	7/32	0.23	Grey	2.21	0.58	PP	PVC

#### Technical Data

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## FCC68 - 26 and 28 AWG Modular Telephone Cable

#### Telecom Cable

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Manufactured by Alpha, a range of stranded Multiconductor flat cables. The conductors are stranded plain copper, insulated with polyethylene 4, 6 or 8 conductors laid up in a parallel formation with an overall PVC outer sheath in various colours.

Available in 26 and 28 AWG.

#### All cables are supplied on 100m lengths packaged in Alpha Qwik-Reels.

Voltage Rating 150 V at 60°C

28 AWG cables are listed to UL style 20251.

#### Core Colours

Number of Ways	
(26 and 28 AWG)	Colour Code
4	Black, Red, Green and Yellow
6	White, Black Red, Green, Yellow and Blue
8 Type A	Slate, Orange, Black, Red, Green, Yellow, Blue and Brown
8 Type B	Blue, Orange, Black, Red, Green, Yellow, Brown and Slate

#### Dimensions

Number of Ways	Conductor Size	Dimensions
4	26 AWG (7/34 AWG)	5.0 x 2.5mm
6	26 AWG (7/34 AWG)	7.0 x 2.5mm
8	26 AWG (7/34 AWG)	8.9 x 2.5mm
4	28 AWG (7/36 AWG)	5.0 x 2.5mm
6	28 AWG (7/36 AWG)	7.0 x 2.5mm



## FCC68 - 26 and 28 AWG Modular Telephone Cable

Telecom Cable

#### Technical Data

Anixter Number	Alpha Number	AWG	Number of Ways	Colour
A517248	517248	28	4	Silver
A517249	517249	28	6	Silver
A517371	517371	26	4	Black
A517374	517374	26	6	Black
A517370	517370	26	4	White
A517373	517373	26	6	White
A1604	1604	26	4	Silver
A1606	1606	26	6	Silver
A1608	1608	26	8 Type A	Silver
A517369	517369	26	4	Grey
A517372	517372	26	6	Grey
A517375	517375	26	8 Type A	Grey
A517368	517368	26	8 Type B	Grey

Other sheath colours and reel sizes are available on request.

Qwik-Reels are a reel packaged within a dispenser box.

Qwik-Reels is a trademark of Alpha Wire Company.

## UL Style Mains Cords - 2 Core Neoprene UL Style Mains Cords (Types SVO, SJO and SO)

Mains Cord and Cable

Manufactured to meet the requirements of UL style 62 and CSA Standard C22.2 No.49, these products are ideal for motor control and in plant power distribution applications. The products are constructed using a stranded bare copper conductor insulated with PVC, overall sheathed in Neoprene.

Products are supplied on 76m (250ft) reels.

Voltage Rating	300 V (600 V type SO
Operating Temperature	-20°C to $+60°$ C
Core Colours	Black, White
Sheath Colour	Black

#### Technical Data

Anixter Number	Product	Alpha Number	AWG	Stranding AWG	Insulation Thickness mm	Jacket Thickness mm	Nominal Overall Diameter mm	Insulation Material	Jacket Material
A1931	Type SVO 2 Conductor	1931	18	41/34 (41/0.16mm)	0.41	0.81	6.1	Rubber	Neoprene
A1932	Type SJO 2 Conductor	1932	18	16/30 (16/0.25mm)	0.76	0.76	7.6	Rubber	Neoprene
A1933	Type SJO 2 Conductor	1933	16	26/30 (26/0.25mm)	0.76	0.76	8.2	Rubber	Neoprene
A1934	Type SO 2 Conductor	1934	18	16/30 (16/0.25mm)	0.76	1.52	9.1	Rubber	Neoprene
A1935	Type SO 2 Conductor	1935	16	26/30 (26/0.25mm)	0.76	1.52	9.6	Rubber	Neoprene
A1936	Type SO 2 Conductor	1936	14	41/30 (41/0.25mm)	1.14	2.03	13.4	Rubber	Neoprene
A1937	Type SO 2 Conductor	1937	12	65/30 (65/0.25mm)	1.14 2.41	-	15.2	Rubber	Neoprene



## UL Style Mains Cords - 3 and 4 Core UL Style Mains Cords (Types SJO and SO)

Mains Cord and Cable

A range of 3 and 4 Core Mains Cords, both shielded and unshielded, manufactured to meet the requirements of UL style 62 and CSA Standard C22.2 No.49, making these products ideal for motor control and in plant power distribution applications.

These cables are constructed using a stranded bare copper conductor insulated with rubber and overall sheathed in Neoprene.

SJO and SO types are supplied on 76m (250ft) reels. (Other sizes are available to special order, call for details)

Core Colours	3 Core: Black, White, Green
	4 Core: Black, White, Green, Red
Sheath Colour	Black

#### Technical Data

Anixter Number	Product	Alpha Number	AWG	Stranding AWG	Insulation Thickness mm	Jacket Thickness mm	Nominal Overall Diameter mm	Insulation Material	Jacket Material
A1932/3	Type SJO 3 Conductor	1932/3	18	41/34 (41/0.16mm)	0.41	0.81	6.1	Rubber	Neoprene
A1933/3	Type SJO 3 Conductor	1933/3	16	26/30 (26/0.25mm)	0.76	0.76	8.9	Rubber	Neoprene
A1934/3	Type SO 3 Conductor	1934/3	18	16/30 (16/0.25mm)	0.76	1.52	9.6	Rubber	Neoprene
A1935/3	Type SO 3 Conductor	1935/3	16	26/30 (26/0.25mm)	0.76	1.52	10.2	Rubber	Neoprene
A1936/3	Type SO 3 Conductor	1936/3	13	41/30 (41/0.25mm)	1.14	2.03	14.1	Rubber	Neoprene
A1937/3	Type SO 3 Conductor	1937/3	12	65/30 (65/0.25mm)	1.14	2.41	15.7	Rubber	Neoprene
A1938/3	Type SO 3 Conductor	1938/3	10	105/30 (105/0.25mm)	1.14	2.41	17.0	Rubber	Neoprene
A1934/4	Type SO 4 Conductor	1934/4	18	16/30 (16/0.25mm)	0.76	1.52	10.4	Rubber	Neoprene
A1935/5	Type SO 4 Conductor	1935/5	16	26/30 (26/0.25mm)	0.76	4.52	11.2	Rubber	Neoprene
A1936/4	Type SO 4 Conductor	1936/4	14	41/30 (41/0.25mm)	1.14	2.03	15.2	Rubber	Neoprene
A1937/4	Type SO 4 Conductor	1937/4	12	65/30 (65/0.25mm)	1.14	2.41	17.0	Rubber	Neoprene
A1938/4	Type SO 4 Conductor	1938/4	10	105/30 (105/0.25)mm	1.14	2.41	17.3	Rubber	Neoprene





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## UL Style Mains Cords - 3 Core UL Style Mains Cords (Types SJT, SVT, SJ and SV)

Mains Cord and Cable

A range of 3 Core Mains Cords, manufactured to meet the requirements of UL style 62 and CSA Standard C22.2 No.49 (SVT is not CSA certified), these products are ideal for motor control and in plant power distribution applications.

The products are constructed using a stranded bare copper conductor insulated with PVC or rubber and overall sheathed in PVC or rubber (insulation and sheathing material is type dependant).

SJO and SO types are supplied on 76m (250ft) reels. (Other sizes are available to special order, call for details).

Products are supplied on 76m (250ft) reels. (Other reel sizes and jacket colours are available to special order, call for details).

 Voltage Rating
 300 V

 Operating Temperature
 -20°C to +60°C

 Core Colours
 Black, White, Green

 Sheath Colour
 Black

#### Technical Data

Anixter Number	Product	Alpha Number	AWG	Stranding AWG	Insulation Thickness mm	Jacket Thickness mm	Nominal Overall Diameter mm	Insulation Material	Jacket Material
A1952/3T	Type SJT 3 Conductor	1952/3T	18	41/34 (41/0.16mm)	0.76	0.776	8.4	PVC	PVC
A1953/3T	Type SJT 3 Conductor	1953/3T	16	65/34 (65/0.16mm)	0.76	0.76	8.9	PVC	PVC
A1951/3T²#	Type SVT 3 Conductor	1951/3T²#	18	41/34 (41/0.16mm)	0.38	0.76	6.4	PVC	PVC
A1952/3	Type SJ 3 Conductor	1952/3	18	16/30 (16/0.25mm)	0.76	0.76	8.4	Rubber	Rubber
A1953/3	Type SJ 3 Conductor	1953/3	16	26/30 (26/0.25mm)	0.76	0.76	8.9	Rubber	Rubber
A1951/3	Type SV 3 Conductor	1951/3	18	41/34 (41/0.16mm)	0.38	0.76	6.6	Rubber	Rubber

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## UL Style Mains Cords - 3 Core Shielded and Unshielded UL Style Mains Cords (Types SJT with European Core Colours)

Mains Cord and Cable

A range of 3 Core Mains Cords, both Shielded and Unshielded, manufactured to meet the requirements of UL style 62 and CSA Standard C22.2 No.49, with the addition of European (CEE) colour-coded cores, making these products ideal motor control and in plant power distribution applications.

Products are supplied on 76m (250ft) reels. (Other reel sizes and jacket colours are available to special order, call for details).

Voltage Rating	300 V	Core Colours	Blue, Brown, Green/Yellow
Operating Temperature	-20°C to $+60°$ C	Sheath Colour	Black

#### Technical Data

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Anixter Number	Product	Alpha Number	AWG	Stranding AWG	Insulation Thickness mm	Jacket Thickness mm	Nominal Overall Diameter mm	Insulation Material	Jacket Material
A1941/3	Type SJT Unshielded 3 Conductor #	1941/3	18	41/34 (41/0.16mm)	0.76	0.76	8.4	PVC	PVC
A1942/3	Type SJT Unshielded 3 Conductor #	1942/3	16	65/34 (65/0.16mm)	0.76	0.76	8.9	PVC	PVC
A1943/3	Type SJT Unshielded 3 Conductor #	1943/3	14	41/30 (41/0.25mm)	0.76	0.76	9.6	PVC	PVC
A1941/3F	Type SJT Shielded 3 Conductor ##	1941/3F	18	41/34 (41/0.16mm)	0.38	0.76	6.4	PVC	PVC
A1942/3F	Type SJT Shielded 3 Conductor # #	1942/3F	16	65/34 (65/0.16mm)	0.76	0.76	9.2	PVC	PVC
A1943/3F	Type SJT Shielded 3 Conductor ##	1943/3F	14	41/30 (41/0.25mm)	0.76	0.76	10.2	PVC	PVC

# The products are constructed using a stranded bare copper conductor insulated with PVC and overall sheathed in PVC

## The products are constructed using a stranded bare copper conductor insulated with PVC, shielding is provided by an aluminium/polyester inward facing tape together with a tinned copper drain wire, overall sheathed in PVC



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## UL Style Mains Cords - UL Style Retractile Cords (Types SO, SVO and SJO)

Mains Cord and Cable

A range of Retractile Mains Cords, manufactured to meet the requirements of UL style 62, making these products ideal for numerous applications including:

- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

These cables are constructed using a stranded bare copper conductor insulated with rubber and overall sheathed in Neoprene.

Retractile cords are supplied in single piece packs.

Green

#### Technical Data

Anixter Number	Product	Alpha Number	No of Conductors	AWG	Stranding AWG	Coil Diameter mm	Nominal Overall Diameter mm	UL Type	Insulation Material	Jacket Material
A725	Retracted Length -0.30m#	725	2	18	41/34mm	23.8	6.1	SVO	Rubber	Rubber
A727	Retracted Length -0.30m#	727	3	18	41/34mm	34.9	8.4	SJO	Rubber	Neoprene
A760/2	Retracted Length -0.60m##	760/2	3	18	41/34mm	25.4	7.0	SVO	Rubber	Neoprene
A674/2	Retracted Length -0.60m##	674/2	4	14	41/30mm	57.2	15.4	SO	Rubber	Neoprene
A760/4	Retracted Length -1.20m###	760/4	3	18	41/30mm	25.4	7.0	SVO	Rubber	Neoprene
A665/4	Retracted Length -1.20m###	665/4	3	16	65/34mm	35.5	9.9	SJO	Rubber	Neoprene
A674/4	Retracted Length -1.20m###	674/4	4	14	41/30mm	57.2	15.4	SO	Rubber	Neoprene

# Retracted Length 0.30mm. Extended Length 1.50mm. 0.15m leads at each end

## Retracted Length 0.60mm. Extended Length 3mm. 0.15m leads at each end

 $\#\,\#\,\#$  Retracted Length 1.20mm. Extended Length 6m. 0.15m leads at each end

19 All dimensions relating to retracted length, extended length and the length of the leads at the end of a coil are given as nominal measurements.

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## Miniature Retractile Communication Cords

**Computer Cable** 

A range of Miniature Retractile Communication Cords, manufactured to UL AWM style 20013, making these products ideal for numerous applications including:

- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

Retractile cords are supplied in single piece packs.

Voltage Rating	30 V
Operating Temperature	-20°C to $+60°$ C
Core Colours	2 Core: Black, White
	4 Core: Black White, Red, Green, Black
Sheath Colour	Black

These cables are constructed using a stranded tinned copper conductor insulated with PVC and overall sheathed in PVC.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material
A651	651	2	28	19/40	12.7	3.4	PVC	PVC
A652	652	4	28	19/40	12.7	3.8	PVC	PVC

Retracted Length 0.60m. Extended Length 3m. 0.15m leads at each end.

All dimensions relating to retracted length, extended length and the length of the leads at the end of a coil are given as nominal measurements.

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## Unshielded and Shielded Retractile Communication Cords to UL 2464

Computer Cable

A range of retractile communication cords, manufactured to UL style 2464, making these products ideal for numerous applications including:

- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

Retractile cords are supplied in single piece packs.

8 9	Voltage Rating Operating Temperature Current Rating Sheath Colour	300 V -20°C to +80°C 1A Black
10	<b>Colour Code</b> Colour Chart	Colour
11	1 2 3	Black White Red
12	4 5 6	Green Orange
13	6 7 8	Blue Yellow Brown
14	9 10	Grey Pink
15	11 12 13	Violet Tan White/Black
16	14 15	Red/Black Green/Black
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## Technical Data - Unshielded Retractile Communication Cords

Computer Cable

These cables are constructed using a stranded tinned copper conductor insulated with polypropylene and overall sheathed in PVC.

Retracted Length - 0.30m. Extended Length 1.5m. 0.30m leads at each end.

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material
A702R	702R	2	23	21/36	15.89	4.57	PP	PVC
A703R	703R	3	23	21/36	17.46	4.83	PP	PVC
A704R	704R	4	23	21/36	17.46	5.08	PP	PVC 🔊
A705R	705R	5	23	21/36	19.10	5.59	PP	PVC
A706R	706R	6	23	21/36	22.22	5.84	PP	PVC
A707R	707R	7	23	21/36	22.22	5.84	PP	PVC

Retracted Length - 0.60m. Extended Length 3m. 0.15m leads at each end.

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material
A704/3R	704/3R	4	23	21/36	17.46	5.08	PP	PVC
A705/3R	705/3R	5	23	21/36	19.10	5.59	PP	PVC
A706/3R	706/3R	6	23	21/36	22.22	5.84	PP	PVC
A707/3R	707/3R	7	23	21/36	22.22	5.84	PP	PVC

Retracted Length - 1.20m. Extended Length 6m. 0.15m leads at each end.

Anixter	Alpha	Number of	AWG	Stranding	Coil	Cord	Insulation	Jacket	1
Number	Number	Conductors		AWG	Diameter mm	Diameter mm	Material	Material	
A703/4R	703/4R	3	23	21/36	17.46	4.83	PP	PVC	1
A704/4R	704/4R	4	23	21/36	17.46	5.08	PP	PVC	
A705/4R	705/4R	5	23	21/36	19.10	5.59	PP	PVC	1
A706/4R	706/4R	6	23	21/36	22.22	5.84	PP	PVC	
A707/4R	707/4R	7	23	21/36	22.22	5.84	PP	PVC	
A708/4R	708/4R	8	23	21/36	22.22	6.35	PP	PVC	1
A710/4R	710/4R	10	23	21/36	23.81	7.11	PP	PVC	
A712/4R	712/4R	12	23	21/36	25.40	7.37	PP	PVC	1
A715/4R	715/4R	15	23	21/36	26.56	7.87	PP	PVC	ין ך



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## Individually Shielded Retractile Communication Cord Retracted Length 0.60m

Computer Cable

A range of Retractile Communication Cords, manufactured to UL style 2464, making these products ideal for numerous applications including:

- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

Retractile cords are supplied in single piece packs.

Colour Black

White

Voltage Rating300 VOperating Temperature-20°C to +80°CCurrent Rating1ASheath ColourBlack

#### Colour Code

10	Colour Chart
	Conductor Number
11	1 2

Constructed using a stranded tinned copper conductor insulated with polypropylene, shielding is provided by a spiral wrapped tinned copper screen, individually applied to each conductor, overall sheathed in PVC.

Retracted Length - 0.60m. Extended Length 3m. 0.15m leads at each end.

#### Technical Data

16	Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material
17	A722/2R	722/2R	2	23	21/36	19.10	5.30	PP	PVC
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## Shielded/Unshielded Retractile Communication Cord Retracted Length 0.60m

A range of Retractile Communication Cords, manufactured to UL style 2464, making these products ideal for numerous applications including:

- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

Retractile cords are supplied in single piece packs.

Voltage Rating Operating Temperature Current Rating Sheath Colour	300 V -20°C to +80°C 1A Black
Colour Code	
Colour Chart	
Conductor Number	Colour
1	Black
2	White
3	Red

Constructed using a stranded tinned copper conductor insulated with polypropylene, shielding is provided by a spiral wrapped tinned copper screen, applied to one conductor, with two conductors being unscreened, overall sheathed in PVC.

Retracted Length - 0.60m. Extended Length 3m. 0.15m leads at each end.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material
A723/2R	723/2R	3	23	21/36	19.10	5.30	PP	PVC



## Neoprene Unshielded Retractile Communication Cord

Computer Cable

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- A range of Retractile Communication Cords, manufactured to various UL styles, making these products ideal for numerous applications including:
- Industrial Test Equipment
- Musical Instruments and Equipment
- Computer Keyboards
- Pick and Place Equipment

These cables are constructed using a stranded tinned copper conductor insulated with rubber and overall sheathed in neoprene.

Retractile cords are supplied in single piece packs.

Operating Temperature -3 Current Rating 14	
Sheath Colour Bl	ack

#### Colour Code

Conductor Number	Colour
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7 <	Yellow



### Neoprene Unshielded Retractile Communication Cord

Computer Cable

Retracted Length - 0.60m. Extended Length 3m. 0.15m leads at each end.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material	UL AWM Style
A680/2	680/2	2	23	21/36	19.10	5.5	Rubber	Neoprene	4194
A681/2	681/2	3	23	21/36	20.6	5.6	Rubber	Neoprene	4195
A682/2	682/2	4	23	21/36	23.8	6.4	Rubber	Neoprene	4196 👝
A683/2	683/2	5	23	21/36	27.0	7.2	Rubber	Neoprene	4197
A684/2	684/2	6	23	21/36	28.6	7.8	Rubber	Neoprene	4198
A685/2	685/2	7	23	21/36	31.8	8.1	Rubber	Neoprene	4182

Retracted Length - 1.20m. Extended Length 6m. 0.15m leads at each end.

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Coil Diameter mm	Cord Diameter mm	Insulation Material	Jacket Material	UL AWM Style
A680/4	680/4	2	23	21/36	19.10	5.5	Rubber	Neoprene	4194
A681/4	681/4	3	23	21/36	20.6	5.6	Rubber	Neoprene	4195
A682/4	682/4	4	23	21/36	23.8	6.4	Rubber	Neoprene	4196
A683/4	683/4	5	23	21/36	27.0	7.2	Rubber	Neoprene	4197
A684/4	684/4	6	23	21/36	28.6	7.8	Rubber	Neoprene	4198
A685/4	685/4	7	23	21/36	31.8	8.1	Rubber	Neoprene	4182

All dimensions relating to retracted length, extended length and the length of the leads at the end of a coil are given as nominal measurements.

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# Grey Flat 28 AWG Cable 0.05" (1.27mm) Pitch

Flat Cable

A Grey Flat extruded cable suitable for PC board to PC board interconnects and flexible interconnects within computer and business machine cabinets where space is a premium.

- 28 AWG (7/36) tinned copper conductors on a 0.05" 91.27) pitch, insulated with PVC. The leading edge is colour-coded with a red stripe.
- UL AWM Style 2651

<b>PVC Insulation Thickness</b>	0.01" (0.25mm)	Propagation Delay*	1.4ns/ft-0.18ns (4.6ns/m-0.18ns)
Voltage Rating	300 V		rise time pulse at 1 MHz
Operating Temperature	-20°C to +105°C		
Impedance*	$105\Omega$ nominal		
Capacitance*	14pF/ft (45.9pF/m) at nominal 1N	1Hz	
Crosstalk*	Nominal between 2 adjacent signa	al lines at 1ns rise time over	10ft (3m) length
	Near end: 3.2%. Far end 11.5%		

\* Transmission characteristics: ground-signal-ground-signal, etc. with all grounds common.

Available on 30m reels, which may contain multiple lengths.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Insulation Thickness mm	Nominal Overall Width mm	Nominal Span mm	Insulation Material
A3580/9	3580/9	9	28	7/36	0.25	11.43	10.16	PVC
A3580/10	3580/10	10	28	7/36	0.25	12.70	11.43	PVC
A3580/14	3580/14	14	28	7/36	0.25	17.78	16.54	PVC
A3580/15	3580/15	15	28	7/36	0.25	19.05	17.78	PVC
A3580/16	3580/16	16	28	7/36	0.25	20.32	19.05	PVC
A3580/20	3580/20	20	28	7/36	0.25	25.40	24.13	PVC
A3580/24	3580/24	24	28	7/36	0.25	30.48	29.21	PVC
A3580/25	3580/25	25	28	7/36	0.25	31.75	30.48	PVC
A3580/26	3580/26	26	28	7/36	0.25	33.02	31.75	PVC
A3580/34	3580/34	34	28	7/36	0.25	43.18	41.91	PVC
A3580/37	3580/37	37	28	7/36	0.25	46.99	45.72	PVC
A3580/40	3580/40	40	28	7/36	0.25	50.80	49.53	PVC
A3580/50	3580/50	50	28	7/36	0.25	63.50	62.23	PVC
A3580/60	3580/60	60	28	7/36	0.25	72.20	74.93	PVC
A3580/64	3580/64	64	28	7/36	0.25	81.28	80.01	PVC

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## Colour-Coded Flat 28 AWG Cable 0.05" (1.27mm) Pitch

Flat Cable

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A Colour-Coded Flat extruded cable suitable for PC board to PC board interconnects and flexible interconnects within computer and business machine cabinets where space is a premium and a high degree of flexibility is required, such as drawer enclosed electronic circuitry.

28 AWG (7/36) tinned copper conductors on 0.05" (1.27mm) pitch. Insulation is thermally bonded PVC with clear PVC covering.

UL AWM Style 20932.

Colour Code	Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black	Propagation Delay*	1.4ns/ft-0.18ns (4.6ns/m-0.18ns) rise time pulse at 1 MHz
	Repeats beyond 10 conductors	Crosstalk*	Nominal between 2 adjacent signal
PVC Insulation Thickness	0.01" (0.25mm)		lines at 1ns rise time over 10ft
Voltage Rating	300 V		(3m) length
Operating Temperature	-20°C to +105°C		Near end: 3.2%. Far end 11.5%
Impedance*	105 $\Omega$ nominal	Capacitance*	300 V
Voltage Rating Operating Temperature	0.01" (0.25mm) 300 V -20°C to +105°C		lines at 1ns rise time over 10ft (3m) length Near end: 3.2%. Far end 11.5%

\* Transmission characteristics: ground-signal-ground-signal, etc. with all grounds common.

Available on 30m reels, which may contain multiple lengths.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Nominal Overall Width mm	Nominal Span mm	Insulation Material	
A3583/9	3583/9	9	28	7/36	11.43	10.16	PVC	
A3583/10	3583/10	10	28	7/36	12.70	11.43	PVC	
A3583/14 🥖	3583/14	14	28	7/36	17.78	16.51	PVC	
A3583/15	3583/15	15	28	7/36	19.05	17.78	PVC	
A3583/16	3583/16	16	28	7/36	20.32	19.05	PVC	
A3583/20	3583/20	20	28	7/36	25.40	24.13	PVC	
A3583/24	3583/24	24	28	7/36	30.48	29.21	PVC	
A3583/25	3583/25	25	28	7/36	31.75	30.48	PVC	
A3583/26	3583/26	26	28	7/36	33.02	31.75	PVC	
A3583/34	3583/34	34	28	7/36	43.18	41.91	PVC	
A3583/37	3583/37	37	28	7/36	46.99	45.72	PVC	
A3583/40	3583/40	40	28	7/36	50.80	49.53	PVC	
A3583/50	3583/50	50	28	7/36	63.50	62.23	PVC	
A3583/60	3583/60	60	28	7/36	72.20	74.93	PVC	
A3583/64	3583/64	64	28	7/36	81.28	80.01	PVC	



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### Colour-Coded 28 AWG, Twist-To-Flat Cable 0.05" (1.27mm) Pitch Flat Cable

A Colour-Coded Twist-To-Flat Cable offering easy termination to 0.025" IDC connectors. Ideal for applications where reduced crosstalk is necessary, such as a high-speed data transmissions in computers, cash registers and communications equipment.

28 AWG (7/36) stranded tinned copper conductors on 0.05" (1.27mm) pitch, insulated with PVC with a 0.007" laminated film or stability.

Twisted lengths are 18" (45.72cm), flat lengths are 2" (5.08cm).

UL AWM Style 20814.

7	Colour Code	Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Black, Tan (common)
		Repeats beyond 10 conductors
8	PVC Insulation Thickness	0.01" (0.25mm)
0	Voltage Rating	300 V
	Operating Temperature	-20°C to +105°C
9	Impedance	105Ω nominal
	Capacitance	21pF/ft 969pF/m) nominal
10	Crosstalk	Nominal between 2 adjacent signal lines and 1ns rise time over 10ft (3m) length
		Near end: 3.8%
		Far end 1.5%
11	Propagation Delay	1.56ns/ft (5ns/m) 10ns rise time pulse

Available on 30m reels, which may contain multiple lengths.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors (Pairs)	AWG	Stranding AWG	Insulation Thickness mm	Nominal Overall Width mm	Nominal Span	Insulation Material
A3586/26	3586/26	26 (13)	28	7/36	0.25	$33.0\pm0.38$	$31.75 \pm 0.28$	PVC
A3586/40	3586/40	40 (20)	28	7/36	0.25	$50.8\pm0.51$	$49.53 \pm 0.38$	PVC
A3586/50	3586/50	50 (25)	28	7/36	0.25	$63.5 \pm 0.51$	62.23 ± 0.38	PVC
A3586/60	3586/60	60 (30)	28	7/36	0.25	76.2 ± 0.51	74.93 ± 0.38	PVC

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JL Type CL2. VC Insulation Thickness 0.01" (0.25mm) Capacitance 20pF/ft (65.6pF/m VC Jacket Thickness 0.03" (0.08mm) nominal /oltage Rating 150 V Propagation Delay 1.56ns/ft 0.18ns r	-		
PVC Jacket Thickness 0.03" (0.08mm) nominal /oltage Rating 150 V Propagation Delay 1.56ns/ft 0.18ns r			
VC Insulation Thickness     0.01" (0.25mm)     Capacitance     20pF/ft (65.6pF/m       VC Jacket Thickness     0.03" (0.08mm)     nominal     1.56ns/ft 0.18ns r       /oltage Rating     150 V     Propagation Delay     1.56ns/ft 0.18ns r			
VC Insulation Thickness     0.01" (0.25mm)     Capacitance     20pF/ft (65.6pF/m       VC Jacket Thickness     0.03" (0.08mm)     nominal     1.56ns/ft 0.18ns r       /oltage Rating     150 V     Propagation Delay     1.56ns/ft 0.18ns r			
PVC Jacket Thickness 0.03" (0.08mm) nominal /oltage Rating 150 V Propagation Delay 1.56ns/ft 0.18ns r	) of 1MUz		
/oltage Rating 150 V Propagation Delay 1.56ns/ft 0.18ns r			
Deperating Temperature-20°C to + 105°CCrosstalk at 3.5nsNear end: 5.5%mpedance70Ω nominalFar end 1.5%			
Anixter Number Alpha Number Number of Stranding AWG Insulation Thickness Insul	ation Material		
Conductors mm			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         15         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/15         3590/16         16         1/36         0.25         PVC           A3590/20         3590/20         20         1/36         0.25         PVC           A3590/24         3590/24         24         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC           A3590/20         3590/20         20         1/36         0.25         PVC           A3590/21         3590/24         24         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/15         3590/16         16         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC           A3590/20         20         1/36         0.25         PVC           A3590/21         3590/26         20         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC           A3590/34         34         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC           A3590/20         3590/20         20         1/36         0.25         PVC           A3590/20         3590/20         20         1/36         0.25         PVC           A3590/24         24         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC           A3590/34         3590/34         34         1/36         0.25         PVC           A3590/37         370         1/36         0.25         PVC			
Conductors         mm           A3590/9         3590/9         9         1/36         0.25         PVC           A3590/10         3590/10         10         1/36         0.25         PVC           A3590/14         3590/14         14         1/36         0.25         PVC           A3590/15         3590/15         15         1/36         0.25         PVC           A3590/15         3590/16         16         1/36         0.25         PVC           A3590/16         3590/16         16         1/36         0.25         PVC           A3590/20         20         1/36         0.25         PVC           A3590/21         3590/26         20         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/25         3590/25         25         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC           A3590/26         3590/26         26         1/36         0.25         PVC           A3590/34         34         1/36         0.25         PVC			

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# Shielded 28 AWG Round-To-Flat, 0.05" (1.27mm) Pitch

A Grey Round-To-Flat cable ideal for applications where space is limited and a round shape is more workable.

28 AWG (7/36) stranded tinned copper conductors on 0.05" (1.27mm) pitch, insulated with PVC. The leading edge is colourcoded with a grey stripe. The cable is overall aluminium polyester shielded with a tinned copper braid, offering 90% coverage.

Jacketed in Black PVC.

Flat cable lengths are 0.75" (1.905cm) and occur every 1.5" (3.81cm).

UL AWM Style 20381.

UL Type CL2.

PVC Insulation Thickness	0.01" (0.25mm)
PVC Jacket Thickness	0.03" (0.08mm)
Voltage Rating	300 V (AWM) 150 V (CL2)
Operating Temperature	-20°C to +105°C
Impedance	70 $\Omega$ nominal
Capacitance	24pF/ft (696pF/m) nominal

Available on 30m reels, which may contain multiple lengths.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Stranding AWG	Nominal Width mm	Insulation Thickness mm	Insulation Material	Jacket Material
A3585/25	3585/25	25	28	7/36	30.48	0.25	PVC	PVC
A3585/26	3585/26	26	28	7/36	41.91	0.25	PVC	PVC
A3585/40	3585/40	40	28	7/36	49.53	0.25	PVC	PVC
A3585/50	3585/50	50	28	7/36	62.23	0.25	PVC	PVC



## Grey Flat 30 AWG Cable 0.025" (0.64mm) Pitch

Flat Cable

A Grey Flat extruded cable offering easy termination to 0.025" IDC connectors. Ideal for applications where reduced crosstalk is necessary, such as high-speed data transmissions in computers, cash registers and communications equipment.

30 AWG solid bare copper conductors on 0.025" (0.64mm) pitch, insulated with PVC. The leading edge is colour-coded with a red stripe.

UL AWM Style 2962.

PVC Insulation Thickness	0.01" (0.25mm)
PVC Jacket Thickness	0.03" (0.08mm)
Voltage Rating	300 V (AWM) 150 V (CL2)
Operating Temperature	-20°C to +105°C
Impedance	70 $\Omega$ nominal
Capacitance	24pF/ft (69pF/m) nominal

Available on 30m reels, which may contain multiple lengths.

#### Technical Data

Anixter Number	Alpha Number	Number of Conductors	AWG	Insulation Thickness	Nominal Overall Width	Nominal Span	Insulation Material	
A3585/26	3585/26	26	30	mm 0.25	mm 16.51 ± 0.18	15.88 ± 0.18	PVC	
A3585/40	3585/40	40	30	0.25	$25.40\pm0.18$	$24.76 \pm 0.18$	PVC	
A3585/50	3585/50	50	30	0.25	$31.75 \pm 0.25$	$31.15\pm0.18$	PVC	
A3585/60	3585/60	60	30	0.25	$38.10\pm0.25$	$37.46\pm0.18$	PVC	



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### Xtra Guard Flexible

#### High Flex Mini Diameter, Multiconductor Data Cables

Extreme Flexibility in Small Spaces Continual Flexing in C Tracks UL LISTED, UL Recognised, CSA Certified and CE Marked Outstanding EMI Protection Superior Oil-Resistance

#### Applications

Industrial Electronic Processing Equipment Datacomm Connections Connecting Sensors and Actuators to Controllers Sensor and I/O Interconnects

#### **Characteristics**

Operating Temperature: 5 Degrees C to 105 Degrees C (Flexing) Minus 10 Degrees C to 105 Degrees C (Static) 300 V

Grey Jackets

#### Product Description

Conductor: Super Finely Stranded Tinned Copper Insulation: Lubricated Semi-Rigid PVC Drain Wire: 26 AWG, 7/0.16mm Tinned Copper Shielding: Foil and 90% Tinned Copper Serve Jacket: Oil-Resistant PVC

#### Specifications

Bend Radius: 8X Cable Diameter, Min UL Type CM UL AWM 2661 CSA AWM 11 A/B FT4 CSA AMG VDE 0472, Section 803 Oil Test (Jacket) CE LVD-CD 73/23/EEC Modified by CD 93/68/EEC

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#### High Flex Mini Diameter, Multipair Data Cables

Extreme Flexibility in Small Spaces Continual Flexing in C Tracks UL LISTED, UL Recognised, CSA Certified and CE Marked Outstanding EMI Protection Superior Oil-Resistance High Speed Digital Data Transmission

#### <u>Applications</u>

Characteristics

Industrial Electronic Processing Equipment Datacomm Connections Connecting Sensors and Actuators to Controllers PLC, Microprocessor and Computer Interconnects

#### 5 Degrees C to 105 Degrees C (Flexing) Minus 10 Degrees C to 105 Degrees C (Static) 300 V Grey Jackets

**Operating Temperature:** 

#### Product Description

Conductor: Super Finely Stranded Tinned Copper Insulation: Lubricated Semi-Rigid PVC Drain Wire: 26 AWG, 7/0.16mm Tinned Copper Shielding: Foil and 85% Tinned Copper Braid Jacket: Oil-Resistant PVC

### Specifications

Bend Radius: 15X Cable Diameter, Min UL Type CM UL AWM 2661 CSA AWM 11 A/B FT4 CSA AMG VDE 0472, Section 803 Oil Test (Jacket) CE LVD-CD 73/23/EEC Modified by CD 93/68/EEC



### Xtra Guard Flexible, Multiconductor, Shielded Oil-Resistant, Continuous Flexing

Data Transmission Cable

Xtra Guard Flexible, Multiconductor, Shielded Cables are constructed with finely stranded tinned copper conductors insulated with lubricated PVC and sheathed with an oil-resistant grey jacket.

Cables are manufactured to UL CM AWM 2661, CSA AWM 11 A/B FT4, VDE 0472 Section 803 Oil Test (Jacket), CE LVD-CD 73/23/EEC Modified by CD93/68 EEC.

#### Technical Data

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Anixter Number	Alpha Number	Conductors	Nominal Overall Diameter	AWG	Stranding	Nominal Cross Sectional	Sheath Colour	Jacket Thickness	Insulation Thickness	Insulation Material	Jacket Material
			mm		#/mm	Area mm <sup>2</sup>		mm	mm		
A86002CY	86002CY	2	4.7	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86003CY	86003CY	3	4.83	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86004CY	86004CY	4	5.08	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86102CY	86102CY	2	4.83	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86103CY	86103CY	3	4.98	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86104CY	86104CY	4	5.23	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86202CY	86202CY	2	5.08	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86203CY	86203CY	3	5.26	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86204CY	86204CY	4	5.54	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86302CY	86302CY	2	5.44	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86303CY	86303CY	3	5.64	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC
A86304CY	86304CY	4	5.97	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resistant PVC

### Xtra Guard Flexible, Multipair, Shielded **Oil-Resistant, Continuous Flexing**

Data Transmission Cable

Xtra Guard Flexible, Multipair, Shielded Cables are constructed with finely stranded tinned copper conductors insulated with lubricated PVC and sheathed with an oil-resistant grey jacket.

Cables are manufactured to UL CM AWM 2661, CSA AWM 11 A/B FT4, VDE 0472 Section 803 Oil Test (Jacket), CE LVD-CD 73/23/EEC Modified by CD93/68 EEC.

#### Technical Data

Anixter Number	Alpha Number	Pairs	Nominal Overall Diameter	AWG	Stranding #/mm	Nominal Cross Sectional Area mm²	Sheath Colour	Jacket Thickness mm	Insulation Thickness mm	Insulation Material	Jacket Material
A86401CY	86401CY	1	4.7	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86402CY	86402CY	2	5.84	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86403CY	86403CY	3	6.1	28	7/0.13	0.09	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86501CY	86501CY	1	4.88	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86502CY	86502CY	2	6.15	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86503CY	86503CY	3	6.4	26	7/0.16	0.14	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86601CY	86601CY	1	5.13	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86602CY	86602CY	2	6.55	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86603CY	86603CY	3	6.86	24	10/0.16	0.23	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86701CY	86701CY	1	5.44	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86702CY	86702CY	2	7.06	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC
A86703CY	86703CY	3	7.39	22	19/0.16	0.38	Grey	1.0	0.25	Lubricated SR PVC	Oil-Resist PVC



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### Technical Data Colour Code Charts

Multipair Cables

#### Chart A

Pair Colour	Pair Colour	Pair Colour	Pair Colour
No Combination	No Combination	No Combination	No Combination
1 - Black paired with Red	14 - Green paired with Blue	27 - Brown paired with Yellow	40 - Slate paired with Blue
2 - Black paired with White	15 - Green paired with White	28 - Purple paired with Red	41 - Slate paired with Brow
3 - Black paired with Green	16 - Green paired with Brown	29 - Purple paired with White	42 - Slate paired with Yellov
4 - Black paired with Blue	17 - Green paired with Orange	30 - Purple paired with Green	43 - Slate paired with Orang
5 - Black paired with Brown	18 - Green paired with Yellow	31 - Purple paired with Blue	44 - Slate paired with Black
6 - Black paired with Yellow	19 - White paired with Blue	32 - Purple paired with Brown	45 - White/Black paired wit
7 - Black paired with Orange	20 - White paired with Brown	33 - Purple paired with Yellow	46 - White/Black paired wit
8 - Red paired with Green	21 - White paired with Orange	34 - Purple paired with Orange	47 - White/Black paired wit
9 - Red paired with White	22 - White paired with Yellow	35 - Purple paired with Slate	48 - White/Black paired wit
10 - Red paired with Blue	23 - Blue paired with Brown	36 - Purple paired with Black	49 - White/Black paired wit
11 - Red paired with Yellow	24 - Blue paired with Orange	37 - Slate paired with Red	50 - White/Black paired wit
12 - Red paired with Brown	25 - Blue paired with Yellow	38 - Slate paired with White	51 - White/Black paired wit
13 - Red paired with Orange	26 - Brown paired with Orange	39 - Slate paired with Green	1 - 1

#### Chart B

Pair Colour	Pair Colour	Pair Colour	Pair Colour
No Combination	No Combination	No Combination	No Combination
1 - White paired with Black	14 - Black paired with Green	27 - Red paired with Green	40 - Green paired with Blue
2 - White paired with Brown	15 - Black paired with Blue	28 - Red paired with Blue	41 - Green paired with Violet
3 - White paired with Red	16 - Black paired with Violet	29 - Red paired with Violet	42 - Green paired with Grey
4 - White paired with Orange	17 - Black paired with Grey	30 - Red paired with Grey	43 - Blue paired with Violet
5 - White paired with Yellow	18 - Brown paired with Red	31 - Orange paired with Yellow	44 - Blue paired with Grey
6 - White paired with Green	19 - Brown paired with Orange	32 - Orange paired with Green	45 - Violet paired with Grey
7 - White paired with Blue	20 - Brown paired with Yellow	33 - Orange paired with Blue	46 - White/Black paired with Black
8 - White paired with Violet	21 - Brown paired with Green	34 - Orange paired with Violet	47 - White/Black paired with Brown
9 - White paired with Grey	22 - Brown paired with Blue	35 - Orange paired with Grey	48 - White/Black paired with Red
10 - Black paired with Brown	23 - Brown paired with Violet	36 - Yellow paired with Green	49 - White/Black paired with Orange
11 - Black paired with Red	24 - Brown paired with Grey	37 - Yellow paired with Blue	50 - White/Black paired with Yellow
12 - Black paired with Orange	25 - Red paired with Orange	38 - Yellow paired with Violet	51 - White/Black paired with Green
13 - Black paired with Yellow	26 - Red paired with Yellow	39 - Yellow paired with Grey	

#### Chart C

Pair Colour	Pair Colour	Pair Colour	Pair Colour	16
No Combination	No Combination	No Combination	No Combination	10
1 - Blue paired with White	14 - Orange/Slate paired White	27 - Blue/Orange paired Red	40 - Slate/White paired with Red	
2 - Orange paired with White	15 - Green/White paired with White	28 - Blue/Green paired with Red	41 - Blue paired with Black	17
3 - Green paired with White	16 - Green/Brown paired with White	29 - Blue/Brown paired with Red	42 - Orange paired with Black	17
4 - Brown paired with White	17 - Green/Slate paired with White	30 - Blue/Slate paired with Red	43 - Green paired with Black	
5 - Slate paired with White	18 - Brown/White paired with White	31 - Orange/White paired with Red	44 - Brown paired with Black	18
6 - Blue/White paired with White	19 - Brown/Slate paired with White	32 - Orange/Green paired with Red	45 - Slate paired with Black	10
7 - Blue/Orange paired with White	20 - Slate/White paired with White	33 - Orange/Brown paired with Red	46 - Blue/White paired with Black	
8 - Blue/Green paired with White	21 - Blue paired with Red	34 - Orange/Slate paired with Red	47 - Blue/Orange paired with Black	19
9 - Blue/Brown paired with White	22 - Orange paired with Red	35 - Green/White paired with Red	48 - Blue/Green paired with Black	19
10 - Blue/Slate paired with White	23 - Green paired with Red	36 - Green/Brown paired with Red	49 - Blue/Brown paired with Black	
11 - Orange/White paired with White	24 - Brown paired with Red	37 - Green/Slate paired with Red	50 - Blue/Slate paired with Black	20
12 - Orange/Green paired with White	25 - Slate paired with Red	38 - Brown/White paired with Red	51 - Orange/White paired with Black	20
13 - Orange/Brown paired with White	26 - Blue/White paired with Red	39 - Brown/Slate paired with Red		)



### Technical Data Colour Code Charts

Multipair Cables

#### Chart D

	Base		2nd	3rd	No	Base		2nd	3rd	No	Base		2nd	3rd	No	Base		2nd	3rd
	Colour	Stripe	Stripe	Stripe		Colour	Stripe	Stripe	Stripe		Colour	Stripe	Stripe	Stripe		Colour	Stripe	Stripe	Stripe
1 -	Black				14 -	Red	Yellow			27 -	White	Black	Yellow		40 -	White	Green	Black	
2 -	Red				15 -	Red	Black			28 -	White	Black	Blue		41 -	White	Green	Red	
3 -	White				16 -	White	Black			29 -	White	Black	Brown		42 -	White	Green	Green	
4 -	Green				17 -	White	Red			30 -	White	Black	Orange		43 -	White	Green	Blue	
5 -	Orange				18 -	White	Green			31 -	White	Black	Grey		44 -	White	Green	Brown	
6 -	Blue				19 -	White	Yellow			32 -	White	Black	Violet		45 -	White	Green	Violet	
7 -	Brown				20 -	White	Blue			33 -	White	Black	Black		46 -	White	Blue	Black	
8 -	Yellow				21 -	White	Brown			34 -	White	Red	Black		47 -	White	Blue	Red	
9 -	Violet				22 -	White	Orange			35 -	White	Red	Red		48 -	White	Blue	Green	
10 -	Grey				23 -	White	Grey			36 -	White	Red	Green	2	49 -	White	Blue	Blue	
11 -	Pink				24 -	White	Violet			37 -	White	Red	Blue	· .	50 -	White	Blue	Brown	3
12 -	Tan				25 -	White	Black	Red		38 -	White	Red	Brown		51 -	White	Blue	Violet	7
13 -	Red	Green			26 -	White	Black	Green		39 -	White	Red	Violet	· · · ·		<u> </u>			

#### Chart E

No	Base Colour	1st Stripe	2nd Stripe	3rd Stripe	No	Base Colour	1st Stripe	2nd Stripe	3rd Stripe	No	Base Colour	1st Stripe	2nd Stripe	3rd Stripe	No	) Base Colour	1st Stripe	2nd Stripe	3rd Stripe
1 -	Black				21 -	White	Black	Red		41 -	White	Orange	Yellow	1	61	White	Black	Brown	Violet
2 -	Brown				22 -	White	Black	Orange		42 -	White	Orange	Green	~	62	White	Black	Brown	Grey
3 -	Red				23 -	White	Black	Yellow		43 -	White	Orange	Blue		63	White	Black	Red	Yellow
4 -	Orange				24 -	White	Black	Green		44 -	White	Orange	Violet	7	64	White	Black	Red	Green
5 -	Yellow				25 -	White	Black	Blue	1	45 -	White	Orange	Grey		65	White	Black	Red	Blue
6 -	Green			/	26 -	White	Black	Violet		46 -	White	Yellow	Green		66	White	Black	Red	Violet
7 -	Blue			(	27 -	White	Black	Grey	T	47 -	White	Yellow	Blue		67	White	Black	Red	Grey
8 -	Violet			~	28 -	White	Brown	Red	1	48 -	White	Yellow	Violet		68	White	Black	Orange	Yellov
9 -	Grey	4			29 -	White	Brown	Orange		49 -	White	Yellow	Grey		69	White	Black	Orange	Green
10 -	White	1		-	30 -	White	Brown	Yellow		50 -	White	Green	Blue		70	White	Black	Orange	Blue
11 -	White	Black			31 -	White	Brown	Green		51 -	White	Green	Violet		71	White	Black	Orange	Violet
12 -	White	Brown			32 -	White	Brown	Blue	$\sim$	52 -	White	Green	Grey		72	White	Black	Orange	Grey
13 -	White	Red		-	33 -	White	Brown	Violet	7	53 -	White	Blue	Violet		73	White	Black	Yellow	Green
14 -	White	Orange	-	1	34 -	White	Brown	Grey		54 -	White	Blue	Grey		74	White	Black	Yellow	Blue
15 -	White	Yellow			35 -	White	Red	Orange		55 -	White	Violet	Grey		75	White	Black	Yellow	Violet
16 -	White	Green			36 -	White	Red	Yellow		56 -	White	Black	Brown	Red	76	White	Black	Yellow	Grey
17 -	White	Blue			37-	White	Red	Green		57 -	White	Black	Brown	Orange	77	White	Black	Green	Blue
18 -	White	Violet	/		38 -	White	Red	Blue		58 -	White	Black	Brown	Yellow					
19 -	White	Grey		~	39 -	White	Red	Violet		59 -	White	Black	Brown	Green					
20 -	White	Black	Brown		40 -	White	Red	Grey		60 -	White	Black	Brown	Blue					
	_																		

#### Chart K

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

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