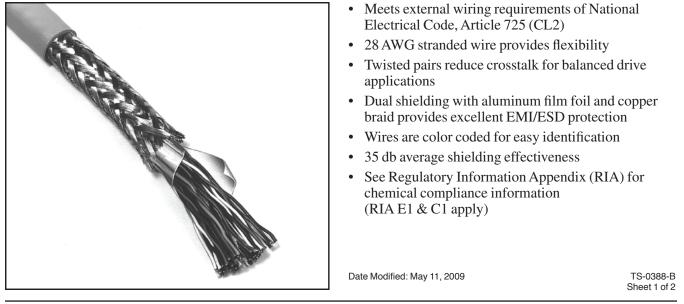
# 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PVC/PVC

3600X Series



### **Physical**

Jacket Material:	Polyvinyl Chloride (PVC); Color: Beige
Primary Material:	PVC
Marking:	
Standard:	(UL) CL2 75C 28 AWG 3M XX C <b>N</b> AWM IIA/B 80C 150V FT1 EU <50V (where XX may be NU, MR or NW)
<b>Conductors:</b>	28 AWG, 7 × 36 AWG [ 7 × Ø 0.127 ] Tinned Stranded Copper
Shielding:	0.001 [ 0.03 ] Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

### **Electrical**

Voltage Rating:	USA: N.E.C. 725, CL2	Canada: 150V EU: <50V
<b>Insulation Resistance:</b>	(Primary Cable) > $1 \times 10^{10}$	Ω/10 ft. [ 3 m ]
Characteristic Impedance:	Unbalanced 58 Ω	Balanced 91 Ω
Capacitance:	29.2 pF/ft [ 95.8 pF/m ]	18.5 pF/ft [ 60.7 pF/m ]
Inductance:	0.10 µH/ft [ 0.33 µH/m ]	0.15 μH/ft [ 0.49 μH/m ]
<b>Propagation Delay:</b>	1.69 ns/ft [ 5.54 ns/m ]	1.69 ns/ft [ 5.54 ns/m ]
Velocity of Propagation:	60%	60%

Note: Unbalanced is measured between conductors within a pair with one conductor connected to the shield. Balanced is measured between conductors within a pair with the shield floating.

### **Environmental**

**Temperature Rating:** USA: CL2; 75°C Max **Flammability Rating:** USA: N.E.C. 725, CL2 Canada: +80°C Canada: FT1

UL File No.: E118773, Power Limited Circuit Cable; CL2

# $3M^{\text{TM}}$ Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PVC/PVC

3600X Series

J)	7	•							Numbe Conduc		M Part N	umber	Dimens	ion
<b>ک</b>									14 (7 pa	air)	3600X	/14	.22 [ 5	5.61
								Ì	20 (10 p	air)	3600X	/20	.24 [ 6	3.1]
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(Mfgr. C	option)				Ca	ble: Twisted			26 (13 p	air)	3600X	/26	.25 [ 6	
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	)								68 (34 p	air)	3600X	/68	.36 [ 9	
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2	3	Black	White	4	White	Black	27	53	Brown	Orange		Orange		
3	5	Black	Green	6	Green	Black	28	55	Orange	Yellow		Yellow		
4	7	Black	Blue	8	Blue	Black	29	57	Violet	Orange		Orange		<u> </u>
5	9	Black	Yellow	10	Yellow	Black	30	59	Violet	Red	60	Red	Viol	_
6	11	Black	Brown	12	Brown	Black	31	61	Violet	White	62	White	Viol	et
7	13	Black	Orange	14	Orange	Black	32	63	Violet	Green	64	Green	Viol	et
8	15	Red	White	16	White	Red	33	65	Violet	Blue	66	Blue	Viol	et
9	17	Red	Green	18	Green	Red	34	67	Violet	Yellow	-	Yellow	_	_
10	19	Red	Blue	20	Blue	Red	35	69	Violet	Brown		Brown		_
11	21	Red	Yellow	22	Yellow	Red	36	71	Violet	Black	72	Black	Viol	_
12 13	23 25	Red Red	Brown	24 26	Brown	Red Red	37 38	73 75	Gray Gray	White Brown	74	White Brown		-
13	25	Green	Orange White	28	Orange White	Green	39	75	Gray	Red	78	Red	Gra	-
15	29	Green	Blue	30	Blue	Green	40	79	Gray	Orange		Orange		-
16	31	Green	Yellow	32	Yellow	Green	41	81	Gray	Yellow	-1	Yellow		-
17	33	Green	Brown	34	Brown	Green	42	83	Gray	Green		Green	-i	-
18	35	Green	Orange	36	Orange	Green	43	85	Gray	Blue	86	Blue	Gra	-
19	37	White	Blue	38	Blue	White	44	87	Tan	Orange		Orange		
20	39	White	Yellow	40	Yellow	White	45	89	Tan	Green		Green		
21	41	White	Brown	42	Brown	White	46	91	Tan	Black	92	Black	Tar	
22	43	White	Orange	44	Orange	White	47	93	Tan	Blue	94	Blue	Tar	
23	45 47	Blue Blue	Yellow Brown	46 48	Yellow Brown	Blue	48	95 97	Tan Tan	White Yellow	96	White Yellow	Tar Tar	
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act 3M for	availability	of additional custom roll lei	-			,		(See Table						S-038 eet 2

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# **Regulatory Information Appendix**

### **3M Electronic Solutions Division/Interconnect**

### **EUROPE**

## Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

#### This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

## This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

#### This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC, as amended by EU Commission Decision 2005/717/EC, as amended by EU Court of Justice Decision 2008/C 116/04

# This product contains decaBDE in the insulating material in excess of the maximum concentration allowed for finished products subject to EU RoHS that are placed on the EU market after June 30, 2008.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

### Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

#### This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

### CHINA Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix C2: China RoHS



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part does contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

#### 产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

<u>」而于日母日古初须或九家的石術及日里</u> Hume and Soment of Huzardous Substances of Elements										
部件名称	有毒有害物质或元素(Hazardous Substances or Elements)									
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬(Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)				
端子镀层(contact plating)	×	0	0	0	0	0				
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.) ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)										

## Appendix C3: China RoHS



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

#### 产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称	有毒有害物质或元素(Hazardous Substances or Elements)							
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬(Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)		
合金(Metal alloy)	×	0	0	0	0	0		

○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.) ×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance

×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

#### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.** 



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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