

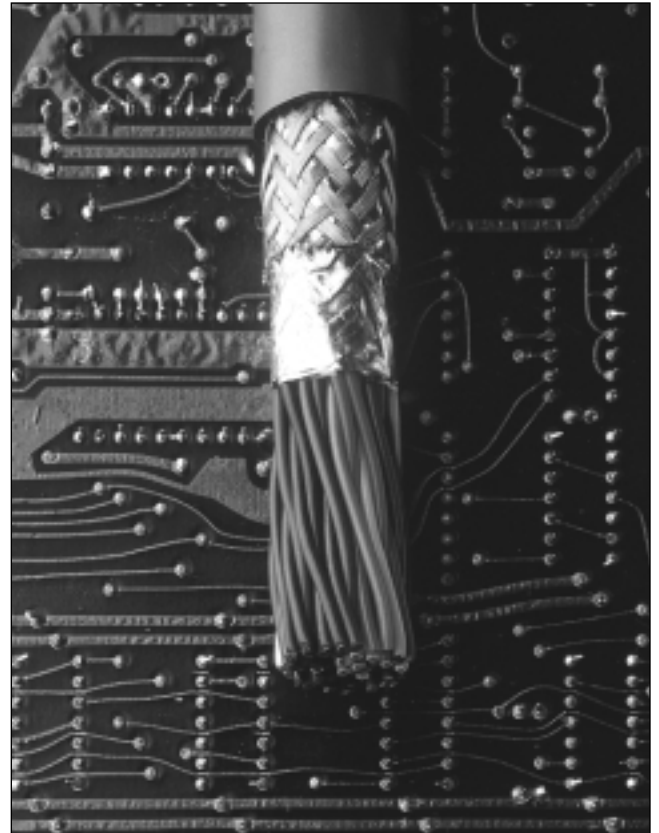
XTRA•GUARD® 1

EXTRA-PREMIUM GRADE PVC JACKET FOR EXTENDED CABLE LIFE

Specify **XTRA•GUARD® 1** for general purpose electronic cable for internal or external wiring of OEM equipment. **XTRA•GUARD® 1** features unsurpassed flame and moisture resistance, fast, easy stripping of insulation and jacket, fully color-coded, tinned copper conductors and premium grade PVC insulation and jacket. **XTRA•GUARD® 1** is available in both 300 Volt and 600 Volt UL and CSA cable styles.

APPLICATIONS

- EIA RS 232C Interface (Shielded 24, 22 AWG)
- High Technology Applications in Controlled Environments
- Medical Electronics
- Point-Of-Sale Equipment
- Computer Peripherals
- Industrial Process Controls



FIT® TUBING RECOMMENDATION

FIT®-221 — General Purpose, Irradiated Polyolefin (See Page 114 for Product Specifications)

FIT®-321 — Medium Wall, Adhesive Lined, Irradiated Polyolefin
(See Page 121 for Product Specifications)

UL TYPE CM, AWM 2464
CSA CMG FT4
RoHS COMPLIANT
300 VOLT

XTRA•GUARD® 1

MULTICONDUCTOR, FOIL SHIELD

EXTRA-PREMIUM GRADE PVC JACKET FOR EXTENDED CABLE LIFE

CHOOSE XTRA•GUARD 1 For:

- Unsurpassed Flame and Moisture Resistance
- Fast, Easy Stripping of Insulation and Jacket
- UL Recognition, UL Listing and CSA Certification
- Flexible Cable Routing Requirements

XTRA•GUARD 1 Applications:

- EIA RS 232C Interface (24, 22 AWG)
- High Technology Applications in Controlled Environments
- Medical Electronics
- Point-Of-Sale Equipment
- Computer Peripherals
- Industrial Process Controls

CHARACTERISTICS

OPERATING TEMPERATURE:

- -20°C to 80°C – AWM
- -20°C to 75°C – CM

VOLTAGE RATING:

- 300 Volt

COLOR DESCRIPTION:

- Color Code: 24, 22 AWG Chart E Page 375,
20 AWG Chart D Page 375
- Jacket Colors: Gray, Black

PRODUCT DESCRIPTION:

- Conductor: Stranded Tinned Copper
- Insulation: Color-Coded Premium PVC
- Shield: Aluminum/Polyester Foil Facing In with
Stranded Tinned Copper Drain Wire Equal in Size to
Insulated Conductors of Cable
- Nylon Rip Cord for Ease of Jacket Stripping
- Jacket: Premium PVC

SPECIFICATIONS

- UL Type CM, AWM Style 2464
- CSA CMG FT4
- Passes UL VW-1 Flame Test
- Passes CSA FT4 Flame Test
- RoHS Compliant



Passes
UL VW-1 Flame Test



Underwriters Laboratories Inc. Canadian Standards Association



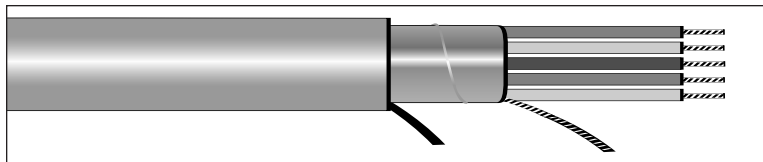
AVAILABILITY

- In Stock: Gray 100 ft (30,5m), 500 ft (152m) and
1000 ft (305m) put-ups
- Made-To-Order: Black, 1000 ft (305m) minimum
- ▲ Also available in Gray 328 ft (100m)

FIT® TUBING RECOMMENDATION

FIT®-221 – General Purpose, Irradiated Polyolefin (See Page 114 for Product Specifications)

FIT®-321 – Medium Wall, Adhesive Lined, Irradiated Polyolefin (See Page 121 for Product Specifications)



24 AWG (0,23mm²), **7/32** (7x0,20mm), Insulation Thickness: **0.010"** (0,25mm)

XTRA•GUARD 1 Part No.	No. of Cond.	Jacket Thickness		Nominal Diameter	
		Inches	mm	Inches	mm
▲ 5092C	2	0.032	0,81	0.16	4,1
▲ 5093C	3	0.032	0,81	0.17	4,3
▲ 5094C	4	0.032	0,81	0.18	4,5
▲ 5096C	6	0.032	0,81	0.20	5,1
▲ 5098C	8	0.032	0,81	0.22	5,6
▲ 5100C	10	0.032	0,81	0.25	6,3
▲ 5100/15C	15	0.032	0,81	0.27	6,9
5100/20C	20	0.032	0,81	0.30	7,6
5100/25C	25	0.032	0,81	0.33	8,3
5100/30C	30	0.032	0,81	0.36	9,2
5100/40C	40	0.032	0,81	0.40	10,2
5100/50C	50	0.032	0,81	0.44	11,3
5100/60C	60	0.032	0,81	0.47	11,9
5100/70C	70	0.032	0,81	0.51	12,9

22 AWG (0,35mm²), **7/30** (7x0,25mm), Insulation Thickness: **0.010"** (0,25mm)

XTRA•GUARD 1 Part No.	No. of Cond.	Jacket Thickness		Nominal Diameter	
		Inches	mm	Inches	mm
5192C	2	0.032	0,81	0.18	4,6
5193C	3	0.032	0,81	0.19	4,9
5194C	4	0.032	0,81	0.20	5,1
5196C	6	0.032	0,81	0.23	5,9
5198C	8	0.032	0,81	0.25	6,4
5199/10C	10	0.032	0,81	0.28	7,0
5199/15C	15	0.032	0,81	0.31	7,9
5199/20C	20	0.032	0,81	0.34	8,6
5199/25C	25	0.032	0,81	0.38	9,7
5199/30C	30	0.032	0,81	0.40	10,2
5199/40C	40	0.032	0,81	0.45	11,5
5199/50C	50	0.032	0,81	0.49	12,5
5199/60C	60	0.032	0,81	0.53	13,5
5199/70C	70	0.053	1,35	0.62	14,0

20 AWG (0,56mm²), **7/28** (7x0,32mm), Insulation Thickness: **0.017"** (0,43mm)

XTRA•GUARD 1 Part No.	No. of Cond.	Jacket Thickness		Nominal Diameter	
		Inches	mm	Inches	mm
5462C	2	0.032	0,81	0.21	5,4
5463C	3	0.032	0,81	0.22	5,6
5464C	4	0.032	0,81	0.24	6,1
5466C	6	0.032	0,81	0.28	7,1
5468C	8	0.032	0,81	0.31	7,9
5470C	10	0.032	0,81	0.35	8,9
5470/15C	15	0.032	0,81	0.41	10,4
5470/20C	20	0.032	0,81	0.46	11,6
5470/25C	25	0.032	0,81	0.50	12,7
5470/30C	30	0.032	0,81	0.54	13,6
5470/40C	40	0.053	1,35	0.65	16,4
5470/50C	50	0.053	1,35	0.71	17,9

Additional AWG sizes on next page

TECHNICAL DATA

COLOR CODE CHARTS

MULTICONDUCTOR CABLES

CHART D

No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black				35	White	Red	Red		69	White	Black	Green	Blue
2	Red				36	White	Red	Green		70	White	Black	Green	Brown
3	White				37	White	Red	Blue		71	White	Black	Green	Orange
4	Green				38	White	Red	Brown		72	White	Black	Green	Gray
5	Orange				39	White	Red	Violet		73	White	Black	Green	Violet
6	Blue				40	White	Green	Black		74	White	Black	Yellow	Blue
7	Brown				41	White	Green	Red		75	White	Black	Yellow	Brown
8	Yellow				42	White	Green	Green		76	White	Black	Yellow	Orange
9	Violet				43	White	Green	Blue		77	White	Black	Yellow	Gray
10	Gray				44	White	Green	Brown		78	White	Black	Yellow	Violet
11	Pink				45	White	Green	Violet		79	White	Black	Blue	Brown
12	Tan				46	White	Blue	Black		80	White	Black	Blue	Orange
13	Red	Green			47	White	Blue	Red		81	White	Black	Blue	Gray
14	Red	Yellow			48	White	Blue	Green		82	White	Black	Blue	Violet
15	Red	Black			49	White	Blue	Blue		83	White	Black	Brown	Orange
16	White	Black			50	White	Blue	Brown		84	White	Black	Brown	Gray
17	White	Red			51	White	Blue	Violet		85	White	Black	Brown	Violet
18	White	Green			52	White	Brown	Black		86	White	Black	Orange	Gray
19	White	Yellow			53	White	Brown	Red		87	White	Black	Orange	Violet
20	White	Blue			54	White	Brown	Green		88	White	Black	Gray	Violet
21	White	Brown			55	White	Brown	Blue		89	White	Red	Black	Green
22	White	Orange			56	White	Brown	Brown		90	White	Red	Black	Yellow
23	White	Gray			57	White	Brown	Violet		91	White	Red	Black	Blue
24	White	Violet			58	White	Violet	Red		92	White	Red	Black	Brown
25	White	Black	Red		59	White	Violet	Green		93	White	Red	Black	Orange
26	White	Black	Green		60	White	Violet	Blue		94	White	Red	Black	Gray
27	White	Black	Yellow		61	White	Black	Red	Green	95	White	Red	Black	Violet
28	White	Black	Blue		62	White	Black	Red	Yellow	96	White	Red	Green	Yellow
29	White	Black	Brown		63	White	Black	Red	Blue	97	White	Red	Green	Blue
30	White	Black	Orange		64	White	Black	Red	Brown	98	White	Red	Green	Brown
31	White	Black	Gray		65	White	Black	Red	Orange	99	White	Red	Green	Orange
32	White	Black	Violet		66	White	Black	Red	Gray	100	White	Red	Green	Gray
33	White	Black	Black		67	White	Black	Red	Violet					
34	White	Red	Black		68	White	Black	Green	Yellow					

CHART E

No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black				35	White	Red	Orange		69	White	Black	Orange	Green
2	Brown				36	White	Red	Yellow		70	White	Black	Orange	Blue
3	Red				37	White	Red	Green		71	White	Black	Orange	Violet
4	Orange				38	White	Red	Blue		72	White	Black	Orange	Gray
5	Yellow				39	White	Red	Violet		73	White	Black	Yellow	Green
6	Green				40	White	Red	Gray		74	White	Black	Yellow	Blue
7	Blue				41	White	Orange	Yellow		75	White	Black	Yellow	Violet
8	Violet				42	White	Orange	Green		76	White	Black	Yellow	Gray
9	Gray				43	White	Orange	Blue		77	White	Black	Green	Blue
10	White				44	White	Orange	Violet		78	White	Black	Green	Violet
11	White	Black			45	White	Orange	Gray		79	White	Black	Green	Gray
12	White	Brown			46	White	Yellow	Green		80	White	Black	Blue	Violet
13	White	Red			47	White	Yellow	Blue		81	White	Black	Blue	Gray
14	White	Orange			48	White	Yellow	Violet		82	White	Black	Violet	Gray
15	White	Yellow			49	White	Yellow	Gray		83	White	Brown	Red	Orange
16	White	Green			50	White	Green	Blue		84	White	Brown	Red	Yellow
17	White	Blue			51	White	Green	Violet		85	White	Brown	Red	Green
18	White	Violet			52	White	Green	Gray		86	White	Brown	Red	Blue
19	White	Gray			53	White	Blue	Violet		87	White	Brown	Red	Violet
20	White	Black	Brown		54	White	Blue	Gray		88	White	Brown	Red	Gray
21	White	Black	Red		55	White	Violet	Gray		89	White	Brown	Orange	Yellow
22	White	Black	Orange		56	White	Black	Brown	Red	90	White	Brown	Orange	Green
23	White	Black	Yellow		57	White	Black	Brown	Orange	91	White	Brown	Orange	Blue
24	White	Black	Green		58	White	Black	Brown	Yellow	92	White	Brown	Orange	Violet
25	White	Black	Blue		59	White	Black	Brown	Green	93	White	Brown	Orange	Gray
26	White	Black	Violet		60	White	Black	Brown	Blue	94	White	Brown	Yellow	Green
27	White	Black	Gray		61	White	Black	Brown	Violet	95	White	Brown	Yellow	Blue
28	White	Brown	Red		62	White	Black	Brown	Gray	96	White	Brown	Yellow	Violet
29	White	Brown	Orange		63	White	Black	Red	Yellow	97	White	Brown	Yellow	Gray
30	White	Brown	Yellow		64	White	Black	Red	Green	98	White	Brown	Green	Blue
31	White	Brown	Green		65	White	Black	Red	Blue	99	White	Brown	Green	Violet
32	White	Brown	Blue		66	White	Black	Red	Violet	100	White	Brown	Green	Gray
33	White	Brown	Violet		67	White	Black	Red	Gray					
34	White	Brown	Gray		68	White	Black	Orange	Yellow					

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