

Heavy-Wall Tubing

3M™ ITCSN Heavy-Wall Cable Sleeves for 1 kV

Shrink Ratio 3:1

3M ITCSN heat shrinkable cable sleeves provide reliable performance for electrical splices, connections and terminations, as well as mechanical and environmental protection. ITCSN heavy-wall cable sleeves are cross-linked polyolefin. They are highly split resistant and fast shrinking to provide rapid installation. The cut-to-length sleeves come standard with a factory-applied adhesive/sealant. Order any of several



174

packaging choices or look for the counter merchandiser assortment at a 3M authorized distributor. Rated to 1 kV, UL Listed 486 D for 600V. File Number E102356. CSA rating.

When ordering, please specify boxed, bulk, tamper evident bag or merchandising display to assure proper pricing.

Specification and Ordering Information for 3M ITCSN Cut Lengths (Black Only)

Product Number	UPC (054007-)		Typical Cable Range	Expanded/Recovered I.D.	Length	Case Qty		Certifications and Listings
	Boxed	Bulk				Boxed	Bulk	
ITCSN-0400-6	08887	08963	12-6 AWG (4-10 mm ²)	0.40/0.15" (10,2/3,8 mm)	6" (15,2 cm)	25 pieces	100	UL E102356 SF
ITCSN-0400-48	08902	08964	12-6 AWG (4-10 mm ²)	0.40/0.15" (10,2/3,8 mm)	48" (121,9 cm)	5 pieces	20	UL E102356 SF
ITCSN-0800-6	40067	08965	8-1/0 AWG (10-50 mm ²)	0.80/0.20" (20,3/5,1 mm)	6" (15,2 cm)	25 pieces	100	UL E102356 SF
ITCSN-0800-9	08890	08966	8-1/0 AWG (10-50 mm ²)	0.80/0.20" (20,3/5,1 mm)	9" (22,9 cm)	25 pieces	100	UL E102356 SF
ITCSN-0800-12	08889	08967	8-1/0 AWG (10-50 mm ²)	0.80/0.20" (20,3/5,1 mm)	12" (30,5 cm)	25 pieces	100	UL E102356 SF
ITCSN-0800-48	08903	08968	8-1/0 AWG (10-50 mm ²)	0.80/0.20" (20,3/5,1 mm)	48" (121,9 cm)	5 pieces	20	UL E102356 SF
ITCSN-1100-6	08894	08969	2-4/0 AWG (35-95 mm ²)	1.10/0.37" (27,9/9,4 mm)	6" (15,2 cm)	25 pieces	100	UL E102356 SF
ITCSN-1100-9	08893	08970	2-4/0 AWG (35-95 mm ²)	1.10/0.37" (27,9/9,4 mm)	9" (22,9 cm)	25 pieces	100	UL E102356 SF
ITCSN-1100-12	08892	08971	2-4/0 AWG (35-95 mm ²)	1.10/0.37" (27,9/9,4 mm)	12" (30,5 cm)	10 pieces	100	UL E102356 SF
ITCSN-1100-48	08904	08972	2-4/0 AWG (35-95 mm ²)	1.10/0.37" (27,9/9,4 mm)	48" (121,9 cm)	5 pieces	20	UL E102356 SF
ITCSN-1500-9	08897	08973	3/0 AWG-400 kcmil (95-185 mm ²)	1.50/0.50" (38,1/12,7 mm)	9" (22,9 cm)	10 pieces	50	UL E102356 SF
ITCSN-1500-12	08896	08974	3/0 AWG-400 kcmil (95-185 mm ²)	1.50/0.50" (38,1/12,7 mm)	12" (30,5 cm)	10 pieces	50	UL E102356 SF
ITCSN-1500-48	08905	08975	3/0 AWG-400 kcmil (95-185 mm ²)	1.50/0.50" (38,1/12,7 mm)	48" (121,9 cm)	5 pieces	20	UL E102356 SF
ITCSN-2000-9	08900	08976	250-750 kcmil (150-300 mm ²)	2.00/0.65" (50,8/16,5 mm)	9" (22,9 cm)	10 pieces	50	UL E102356 SF
ITCSN-2000-12	08899	08977	250-750 kcmil (150-300 mm ²)	2.00/0.65" (50,8/16,5 mm)	12" (30,5 cm)	10 pieces	50	UL E102356 SF
ITCSN-2000-48	08906	08978	250-750 kcmil (150-300 mm ²)	2.00/0.65" (50,8/16,5 mm)	48" (121,9 cm)	5 pieces	20	UL E102356 SF
ITCSN-3000-12	08901	08979	600-1250 kcmil (400-625 mm ²)	3.00/1.00" (76,2/25,4 mm)	12" (30,5 cm)	10 pieces	50	SF
ITCSN-3000-48	08907	08980	600-1250 kcmil (400-625 mm ²)	3.00/1.00" (76,2/25,4 mm)	48" (121,9 cm)	5 pieces	20	SF
ITCSN-4500-48	37979	08981	1500-2500 kcmil (800-1000 mm ²)	4.50/1.50" (114,3/38,1 mm)	48" (121,9 cm)	5 pieces	20	SF
ITCSN-6000-48	37980	08982	2.1-4.8" (53-122 mm ²)	6.00/1.80" (152,4/45,7 mm)	48" (121,9 cm)	5 pieces	20	SF

Note: Flame-retarded ITCSF and other sizes and lengths are available subject to quote. Uncoated product is available on special order—order part number with the suffix "U".

3M™ Heat Shrink Tubing Selector Guide

Typical Properties	FP-301	MW	EPS-300	IMCSN
Operating Temperature Range	-67°F to +275°F (-55°C to +135°C)	-67°F to +230°F (-55°C to +110°C)	-67°F to +230°F (-55°C to +110°C)	-67°F to +230°F (-55°C to +110°C)
Shrink Temperature (Min.)	212°F (100°C)	275°F (135°C)	250°F (121°C)	250°F (121°C)
Shrink Ratio	2:1	2.5:1	3:1	3:1
Standard Sizes Expanded Diameter	3/64" to 4" (1,19 to 101,6 mm)	1/8" to 1" (3,18 to 25,4 mm)	1/8" to 1 1/2" (3,18 to 38,1 mm)	0.400" to 6" (10,16 to 152,4 mm)
Dielectric Strength (V/Mil)	900	900	700	500
Volume Resistivity (ohm-cm)	10 ¹⁵	10 ¹⁵	10 ¹⁴	10 ¹⁴
Tensile Strength (psi)	2400	2200	2100	2400
Elongation (%)	400	400	450	450
Longitudinal Change (± %)	±5%	+1, -10%	+1, -15%	+1, -10%
Specific Gravity	1.3	1.0	1.3	1.28
Flammability	Self-extinguish meets UL 224 flame test except clear	n/a	Outer Jacket Self-extinguish meets UL 224 flame test	N/A
Corrosive Effect	Non-corrosive	Non-corrosive	Non-corrosive	Non-corrosive
Abrasion Resistance	Good	Good	Good	Good
Fuel & Oil Resistance	Good	Good	Good	Good
Solvent Resistance	Excellent	Excellent	Good	Excellent
Resistance to Acids & Alkalis	Excellent	Excellent	Excellent	Excellent

Typical Properties	ITCSN	HDT	MDT	Kynar®
Operating Temperature Range	-67°F to +230°F (-55°C to +110°C)	-67°F to +230°F (-55°C to +110°C)	-67°F to +230°F (-55°C to +110°C)	-67°F to +347°F (-55°C to +175°C)
Shrink Temperature (Min.)	250°F (121°C)	250°F (121°C)	250°F (121°C)	347°F (175°C)
Shrink Ratio	3:1	3:1	3:1	2:1
Standard Sizes Expanded Diameter	0.400 to 4.30" (10,16 to 152,4 mm)	0.300 to 7.00" (7,62 to 177,8 mm)	0.400 to 4.30" (10,16 to 152,4 mm)	3/64 to 2" (1,19 to 50,8 mm)
Dielectric Strength (V/Mil)	500	500	500	900
Volume Resistivity (ohm-cm)	10 ¹⁴	10 ¹⁴	10 ¹⁴	10 ¹⁴
Tensile Strength (psi)	2400	2400	2400	5500
Elongation (%)	475	475	475	350
Longitudinal Change (± %)	+1, -10%	+1, -10%	+1, -10%	+1, -10%
Specific Gravity	1.28	1.28	1.28	1.7
Flammability	N/A	Flame-retardant	Flame-retardant	Self-extinguish meets UL 224 VW-1 Test
Corrosive Effect	Non-corrosive	Non-corrosive	Non-corrosive	Non-corrosive
Abrasion Resistance	Good	Good	Good	Excellent
Fuel & Oil Resistance	Good	Good	Good	Excellent
Solvent Resistance	Good	Good	Good	Excellent
Resistance to Acids & Alkalis	Excellent	Excellent	Excellent	Excellent