

Part Number System for Corrugated Loom Tubing

CLT	100	N	—	C	630
Type	Bundle Diameter	Material		Package Size	Color Suffix
CLT = Slit Wall CLTS = Solid Wall	25 = 1/4" 35 = 5/16" 38 = 3/8" 50 = 1/2" 62 = 5/8" 75 = 3/4" 100 = 1" 125 = 1 1/4" 150 = 1 1/2" 188 = 1 7/8"	N = Heat Stabilized Nylon F = Polyethylene		X = 10' L = 50' C = 100' T = 200' D = 500' .75M = 750' 125M = 1,250' 2M = 2,000' 2.5M = 2,500' 4M = 4,000' 5M = 5,000' 7M = 7,000' 10M = 10,000'	630 = Heat Stabilized Black Nylon 6 20 = Black Polyethylene 3 = Orange Polyethylene 4 = Yellow Polyethylene

Corrugated Loom Tubing – Slit



- Provides protection for cables
- Packaged on a reel for easy handling and dispensing of product
- For indoor use only

- Available in Nylon or Polyethylene, this product features a lengthwise slit which makes it easy to install onto a bundle of wires or a pre-assembled harness assembly
- Crush, impact and abrasion resistant

Part Number	Material	Color	Length Per Reel		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.*
			Ft.	m	In.	mm	In.	mm		
Slit Wall										
CLT25F-C3	Polyethylene	Orange	100	30.5	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLT25F-C4	Polyethylene	Yellow	100	30.5	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLT25F-C20	Polyethylene	Black	100	30.5	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLT25F-10M20	Polyethylene	Black	10,000	3048.0	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLT35F-C3	Polyethylene	Orange	100	30.5	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLT35F-C4	Polyethylene	Yellow	100	30.5	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLT35F-C20	Polyethylene	Black	100	30.5	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLT35F-7M20	Polyethylene	Black	7,000	2133.6	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLT38F-C3	Polyethylene	Orange	100	30.5	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLT38F-C4	Polyethylene	Yellow	100	30.5	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLT38F-C20	Polyethylene	Black	100	30.5	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLT38F-5M20	Polyethylene	Black	5,000	1524.0	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLT50F-C3	Polyethylene	Orange	100	30.5	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLT50F-C4	Polyethylene	Yellow	100	30.5	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLT50F-C20	Polyethylene	Black	100	30.5	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLT50F-4M20	Polyethylene	Black	4,000	1219.2	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLT62F-C3	Polyethylene	Orange	100	30.5	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLT62F-C4	Polyethylene	Yellow	100	30.5	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLT62F-C20	Polyethylene	Black	100	30.5	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLT62F-2.5M20	Polyethylene	Black	2,500	762.0	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLT75F-C3	Polyethylene	Orange	100	30.5	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Table continues on page C3.12

Order number of reels required, in multiples of Standard Package Quantity.

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

Corrugated Loom Tubing – Slit (continued)

Part Number	Material	Color	Length Per Reel		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.*
			Ft.	m	In.	mm	In.	mm		
CLT75F-C4	Polyethylene	Yellow	100	30.5	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLT75F-C20	Polyethylene	Black	100	30.5	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLT75F-2M20	Polyethylene	Black	2,000	609.6	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-X4	Polyethylene	Yellow	10	3.1	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-C3	Polyethylene	Orange	100	30.5	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-C4	Polyethylene	Yellow	100	30.5	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-C20	Polyethylene	Black	100	30.5	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLT100F-125M20	Polyethylene	Black	1,250	381.0	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLT125F-L3	Polyethylene	Orange	50	15.2	1.29	32.8	1.50	38.1	-40°F – 122°F (-40°C – 50°C)	1
CLT125F-L4	Polyethylene	Yellow	50	15.2	1.29	32.8	1.50	38.1	-40°F – 122°F (-40°C – 50°C)	1
CLT125F-L20	Polyethylene	Black	50	15.2	1.29	32.8	1.50	38.1	-40°F – 122°F (-40°C – 50°C)	1
CLT125F-.75M20	Polyethylene	Black	750	228.6	1.29	32.8	1.50	38.1	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-X3	Polyethylene	Orange	10	3.1	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-X4	Polyethylene	Yellow	10	3.1	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-T20	Polyethylene	Black	200	61.0	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-D3	Polyethylene	Orange	500	152.4	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-D4	Polyethylene	Yellow	500	152.4	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT150F-D20	Polyethylene	Black	500	152.4	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLT188F-X3	Polyethylene	Orange	10	3.1	1.88	47.8	2.17	55.1	-40°F – 122°F (-40°C – 50°C)	1
CLT188F-X4	Polyethylene	Yellow	10	3.1	1.88	47.8	2.17	55.1	-40°F – 122°F (-40°C – 50°C)	1
CLT188F-X20	Polyethylene	Black	10	3.1	1.88	47.8	2.17	55.1	-40°F – 122°F (-40°C – 50°C)	1

Solid Wall

CLTS25F-C	Polyethylene	Black	100	30.5	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS25F-C3	Polyethylene	Orange	100	30.5	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS25F-10M	Polyethylene	Black	10,000	3048.0	0.28	7.0	0.40	10.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS35F-C	Polyethylene	Black	100	30.5	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS35F-C3	Polyethylene	Orange	100	30.5	0.35	8.9	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS38F-C	Polyethylene	Black	100	30.5	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS38F-C3	Polyethylene	Orange	100	30.5	0.42	10.5	0.56	14.1	-40°F – 122°F (-40°C – 50°C)	1
CLTS50F-C	Polyethylene	Black	100	30.5	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLTS50F-C3	Polyethylene	Orange	100	30.5	0.51	12.8	0.67	17.0	-40°F – 122°F (-40°C – 50°C)	1
CLTS62F-C	Polyethylene	Black	100	30.5	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS62F-C3	Polyethylene	Orange	100	30.5	0.65	16.5	0.82	20.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS75F-C	Polyethylene	Black	100	30.5	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLTS75F-C3	Polyethylene	Orange	100	30.5	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLTS75F-2M	Polyethylene	Black	2,000	609.6	0.76	19.3	0.94	23.8	-40°F – 122°F (-40°C – 50°C)	1
CLTS100F-C	Polyethylene	Black	100	30.5	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS100F-C3	Polyethylene	Orange	100	30.5	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS100F-1.25M	Polyethylene	Black	1,250	381.0	0.92	23.2	1.09	27.7	-40°F – 122°F (-40°C – 50°C)	1
CLTS150F-D	Polyethylene	Black	500	152.4	1.48	37.6	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1
CLTS150F-D3	Polyethylene	Orange	500	152.4	1.48	39.1	1.73	43.9	-40°F – 122°F (-40°C – 50°C)	1

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Corrugated Loom Tubing – Slit (continued)

Part Number	Material	Color	Length Per Reel		Inside Diameter		Outside Diameter		Temperature Range	Std. Pkg. Qty.*
			Ft.	m	In.	mm	In.	mm		
Nylon Slit										
CLT25N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.28	7.0	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLT25N-10M630	Heat Stabilized Nylon 6	Black	10,000	3048.0	0.28	7.0	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLT35N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.35	8.9	0.50	12.7	-40°F – 230°F (-40°C – 110°C)	1
CLT38N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.42	10.5	0.56	14.1	-40°F – 230°F (-40°C – 110°C)	1
CLT38N-5M630	Heat Stabilized Nylon 6	Black	5,000	1524.0	0.42	10.5	0.56	14.1	-40°F – 230°F (-40°C – 110°C)	1
CLT50N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.51	12.8	0.67	17.0	-40°F – 230°F (-40°C – 110°C)	1
CLT50N-4M630	Heat Stabilized Nylon 6	Black	4,000	1219.2	0.51	12.8	0.67	17.0	-40°F – 230°F (-40°C – 110°C)	1
CLT62N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.65	16.5	0.82	20.7	-40°F – 230°F (-40°C – 110°C)	1
CLT62N-2.5M630	Heat Stabilized Nylon 6	Black	2,500	762.0	0.65	16.5	0.82	20.7	-40°F – 230°F (-40°C – 110°C)	1
CLT75N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.76	19.3	0.94	23.8	-40°F – 230°F (-40°C – 110°C)	1
CLT75N-2M630	Heat Stabilized Nylon 6	Black	2,000	609.6	0.76	19.3	0.94	23.8	-40°F – 230°F (-40°C – 110°C)	1
CLT100N-C630	Heat Stabilized Nylon 6	Black	100	30.5	0.92	23.2	1.09	27.7	-40°F – 230°F (-40°C – 110°C)	1
CLT100N-125M630	Heat Stabilized Nylon 6	Black	1,250	381.0	0.92	23.2	1.09	27.7	-40°F – 230°F (-40°C – 110°C)	1
CLT125N-L630	Heat Stabilized Nylon 6	Black	50	15.2	1.29	32.8	1.50	38.1	-40°F – 230°F (-40°C – 110°C)	1
CLT125N-.75M630	Heat Stabilized Nylon 6	Black	750	228.6	1.29	32.8	1.50	38.1	-40°F – 230°F (-40°C – 110°C)	1
CLT150N-D630	Heat Stabilized Nylon 6	Black	500	152.4	1.48	37.6	1.73	43.9	-40°F – 230°F (-40°C – 110°C)	1
CLT188N-6C630	Heat Stabilized Nylon 6	Black	600	182.9	1.88	47.8	2.17	55.1	-40°F – 230°F (-40°C – 110°C)	1
Nylon Solid										
CLTS25N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.28	7.0	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLTS25N-10M	Heat Stabilized Nylon 6	Black	10,000	3048.0	0.28	7.0	0.40	10.1	-40°F – 230°F (-40°C – 110°C)	1
CLTS35N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.35	8.9	0.50	12.7	-40°F – 230°F (-40°C – 110°C)	1
CLTS38N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.42	10.5	0.56	14.1	-40°F – 230°F (-40°C – 110°C)	1
CLTS50N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.51	12.8	0.67	17.0	-40°F – 230°F (-40°C – 110°C)	1
CLTS62N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.65	16.5	0.82	20.7	-40°F – 230°F (-40°C – 110°C)	1
CLTS75N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.76	19.3	0.94	23.8	-40°F – 230°F (-40°C – 110°C)	1
CLTS75N-2M	Heat Stabilized Nylon 6	Black	2,000	609.6	0.76	19.3	0.94	23.8	-40°F – 230°F (-40°C – 110°C)	1
CLTS100N-C	Heat Stabilized Nylon 6	Black	100	30.5	0.92	23.2	1.09	27.7	-40°F – 230°F (-40°C – 110°C)	1
CLTS125N-L	Heat Stabilized Nylon 6	Black	50	15.2	1.29	32.8	1.50	38.1	-40°F – 230°F (-40°C – 110°C)	1

*Reel packaging may contain splices. Contact Panduit Customer Service for further information.

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

A.
System
Overview

Corrugated Loom Tubing Fittings

- Provide a secure way to join CLT at junctions and breakouts while improving the appearance of wire harnesses

- Color: Black
- Material: Polypropylene

B1.
Cable Ties

B2.
Cable
Accessories



B3.
Stainless
Steel Ties

Part Number	Branch Diameter		Trunk Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm		
CF382538F-Q	0.38	9.5	0.25	6.4	25	100
CF502550F-Q	0.50	12.7	0.25	6.4	25	100
CF503850F-Q	0.50	12.7	0.38	9.5	25	100
CF752575F-Q	0.75	19.1	0.25	6.4	25	100
CF753875F-Q	0.75	19.1	0.38	9.5	25	100

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

Part Number System for Braided Expandable Sleeveing

<u>SE</u>	<u>25</u>	<u>PFR</u>	<u>-</u>	<u>M</u>	<u>R</u>	<u>0</u>
Type	Nominal I.D. Size	Material		Package Size	R = Reel	Color Suffix
SE = Sleeveing Expandable	12 = 1/8" (3.2mm) 25 = 1/4" (6.4mm) 38 = 3/8" (9.5mm) 50 = 1/2" (12.7mm) 75 = 3/4" (19.1mm) 125 = 1 1/4" (31.8mm) 150 = 1 1/2" (38.1mm) 175 = 1 3/4" (44.5mm)	P = Polyethylene Terephthalate (PET) PFR = Polyethylene Terephthalate (PET) Flame Retardant PSC = Fray Resistant Polyethylene Terephthalate (PET)		L = 50' (15.2m) C = 100' (30.5m) T = 200' (61.0m) D = 500' (152.4m) M = 1000' (304.8m)		0 = Black 8 = Gray 10 = White

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

Abrasion Protection Materials Technical Data

		Ratings and Approvals			Physical Properties				Chemical Resistance			
		UL Temperature Index	Flammability (UL 94)	Melting Temperature	Abrasion Resistance (Lower number is better)	Specific Gravity (D792)	Minimum Tensile @23°C (psi)	Water Absorption (Max. 24 hrs.)	Organic Solvents	Alkalies	Acids	Petro-Chemicals
SPIRAL WRAP	Natural Polyethylene Lowest cost material for indoor use up to 122°F. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	22 mg	0.91 – 0.93	1400 (D368)	0.01%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	20 mg	0.93 – 1.09	2000 (D368)	0.03%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	No Discoloration
	Fire Resistant Polyethylene* UL94-V-2 Rating This material is self extinguishing and passes the UL 94 flame retardant test with V-2 rating.	-40°F (-40°C) to 122°F (50°C)	V-2	239°F (115°C)	27 mg	1.00 – 1.30	1400 (D368)	0.02%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 167°F (75°C)	V-0	270°F (132°C)	22 mg	1.23 – 1.37	1500 (D368)	0.02%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration
	Weather Resistant Polypropylene This material is resistant to chemical attack and is suitable for harsh environment applications requiring UV/weather resistance and withstanding high temperatures.	-40°F (-40°C) to 239°F (115°C)	HB	334°F (168°C)	—	0.902	4000 (D638)	0.1%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant No Discoloration
	Nylon 6.6 Nylon is strong, durable material for indoor use up to 149°F. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing.	-40°F (-40°C) to 149°F (65°C)	HB	505°F (263°C)	7 mg	1.13 – 1.15	12,400 (D368)	1.2%	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
	Weather Resistant Nylon 6.6 This material has the same properties as natural Nylon and also has additives which allow it to resist the effects of ultraviolet light in an outdoor environment. This product is available in black only.	-40°F (-40°C) to 149°F (65°C)	HB	505°F (263°C)	7 mg	1.13 – 1.15	12,400 (D368)	1.2%	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
	TFE† This material is a non-flammable, fluorocarbon resin material. Suitable for use in any application (including nuclear containment). It is rated up to 356°F. Color: Opaque to Translucent.	-40°F (-40°C) to 500°F (260°C)	V-0	648°F (342°C)	7 mg	2.13 – 2.22	3000 (D876)	0.01%	Resistant	Resistant	Resistant	Resistant No Discoloration
	Natural Polyethylene Lowest cost material for indoor use up to 122°C. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	22 mg	0.91 – 0.93	1400 (D638)	0.01%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Flame Retardant Polyethylene* UL94-V-0 Rating. This material is self extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 167°F (75°C)	V-0	270°F (132°C)	22 mg	1.15	1500 (D876)	0.02%	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant Some Discoloration

Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.

†TFE is Polytetrafluoroethylene material.

*Contains halogens. Other materials are halogen free.

PAN-WRAP™

Abrasion Protection Materials Technical Data (continued)

		Ratings and Approvals			Physical Properties				Chemical Resistance			
		UL Temperature Index	Flammability (UL 94)	Melting Temperature	Abrasion Resistance (Lower number is better)	Specific Gravity (D792)	Minimum Tensile @ 23°C (psi)	Water Absorption (Max. 24 hrs.)	Organic Solvents	Alkalies	Acids	Petro-Chemicals
SLEEVING	Polyethylene Terephthalate (PET) This material is a thermoplastic polyester material designed for indoor applications. It is rated for use up to 257°F and will tolerate short-term exposure up to 446°F. Colors: Black, White and Gray.	-94°F (-70°C) to 257°F (125°C)	HB	500°F (260°C)	—	1.39	100,000 (D876)	0.08%	Resistant to some solvents	Resistant to most weak bases	Resistant	Some Discoloration
	Flame Retardant Polyethylene* Terephthalate (PET) This material is a self-extinguishing thermoplastic polyester that can be used indoors. It is also rated for use up to 257°F and will tolerate short term exposure up to 446°F. It is provided with tracers to identify the flame retardant material.	-94°F (-70°C) to 257°F (125°C)	UL 1441 VW-1	469°F (243°C)	—	1.39	39,295 (D876)	0.08%	Resistant to some solvents	Resistant to most weak bases	Resistant	Resistant Some Discoloration
CLT	Black Polypropylene Lowest cost material is for use up to 122°F. Other colors may be available.	-40°F (-40°C) to 122°F (50°C)	HB	—	—	0.926 – 0.940	1500 (D638)	—	Resistant except to halogenated hydrocarbons	Resistant	Resistant	Resistant No Discoloration
	Nylon 6 Nylon is a strong, impact modified, heat stabilized, durable high abrasion resistant material.	-40°F (-40°C) to 230°F (110°C)	HB	410°F (211°C)	—	1.06 – 1.16	8000 (D638)	—	Resistant except to halogenated hydrocarbons	Resistant	Not recommended	Resistant No Discoloration
PVC	PVC Non-Shrink Tubing* This material provides insulation and protection for continuous use at temperature -4°F (-20°C) to 221°F (105°C).	-4°F (-20°C) to 221°F (105°C)	UL 224 VW-1	—	—	1.35	2500 (D876)	—	Resistant except to aromatic hydrocarbons, ketones and esters	Resistant	Resistant	Resistant No Discoloration
CLT FITTINGS	Black Polyethylene Lowest cost material is for use up to 122°F. Other colors may be available.	-40°F (-40°C) to 122°F (50°C)	UL94 HB	—	—	1.04	3,900 (D638)	0.02 – 0.03%	Resistant except to halogenated hydrocarbons	Resistant	Resistant except to oxidizing acids	Resistant Some Discoloration
GROMMET EDGING	Natural Polyethylene Lowest cost material for indoor use up to 122°F. Natural is available in all sizes.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	22 mg	0.91 – 1.09	1400 (D638)	—	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only.	-40°F (-40°C) to 122°F (50°C)	HB	239°F (115°C)	20 mg	0.93 – 1.09	2000 (D638)	0.03%	Resistant below 140°F (60°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	No Discoloration
	Flame Retardant Polyethylene* UL94-V-0 Rating This material is self-extinguishing and passes the UL94 flame retardant test with a V-0 rating.	-4°F (-20°C) to 167°F (75°C)	V-0	270°F (132°C)	22 mg	1.23 – 1.37	1200	0.02%	Resistant below 194°F (90°C) except to chlorinated solvents	Resistant	Resistant except to oxidizing acids	Some Discoloration
	Nylon Nylon is strong, durable, self-extinguishing material for indoor use up to 149°F. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing.	-40°F (-40°C) to 149°F (65°C)	V-2	491°F (255°C)	7 mg	1.03 – 1.15	12,400 (D638)	1.5%	Resistant except to phenols and formic acid	Resistant	Resistant to most weak acids	No Discoloration

Note: Typical operating temperature ranges are extended based on end use application and specific environment tests.

*Contains halogens. Other materials are halogen free.

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index