

A horizontal banner with a green-to-white gradient background. The text "WEST PENN WIRE" is centered in a bold, italicized, green sans-serif font.

WEST PENN WIRE

" EXCEEDING EXPECTATIONS WITH PERFORMANCE "

Fire Alarm Cable

Sales and Ordering Information: 1-800-245-4964

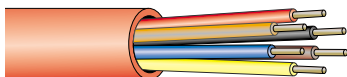
Technical Questions: E-Mail us at info@westpenn-cdt.com

Sales Department: E-Mail us at wpwsales@westpenn-cdt.com

Web-site: www.westpenn-cdt.com

Fire Alarm Signaling Cable

Power-Limited Multiple Conductor/Unshielded



DESCRIPTION

- ASTM bare copper
- PVC insulation • Twisted pair or cabled construction • PVC fillers as required
- Polyester binders as required • Overall PVC jacket

RATING

- NEC type FPLR
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- Select cables are available in outdoor and direct burial versions. See Aquaseal® product line for details
- Orange ripcord under jacket
- Available in a variety of Colors See Tech. Reference Section (Page 199).

Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.	
			inch	mm	inch	mm	inch	mm
1084	6	22 Solid 17.5 Ω/M'	.010	.25	.015	.38	.169	4.29
1086	8	22 Solid 17.5 Ω/M'	.010	.25	.015	.38	.183	4.65
980°	1 Pair	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.146	3.71
982°	4	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.178	4.52
984	6	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.214	5.44
986	8	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.242	6.15
988	10	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.284	7.21
990°	1 Pair	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.155	3.94
992	4	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.203	5.16
994	1 Pair	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.195	4.95
700	4	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.240	6.09
998	1 Pair	12 Solid 1.8 Ω/M'	.012	.30	.015	.38	.225	5.72

Standard spool size 1000 feet

COLOR CODE

All
Cables

Refer to page 51

JACKET: Red

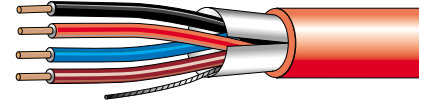
WEST PENN WIRE

Fire Alarm Signaling Cable

Overall Shielded/Power-Limited Multiple Conductor

DESCRIPTION

- ASTM bare copper • PVC insulation
- Twisted pair or cabled construction • PVC fillers as required
- Polyester binders as required • Overall shield 100% coverage of aluminum polyester foil with tinned copper drain wire • Overall PVC jacket



Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance			
			inch	mm	inch	mm	inch	mm	pf / ft*	pf / m*	pf / ft**	pf / m**
1083 [†]	4	22 Solid 17.5 Ω/M'	.010	.25	.015	.38	.146	3.71	54	177	97	318
975°	1 Pair	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.149	3.79	73	239	133	436
976	3	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.167	4.24	73	239	133	436
977	4	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.182	4.62	73	239	133	436
991°	1 Pair	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.160	4.06	82	269	148	486
993	4	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.207	5.26	82	269	148	486
995	1 Pair	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.201	5.11	84	276	151	495
999	1 Pair	12 Solid 1.8 Ω/M'	.012	.30	.015	.38	.230	5.84	96	315	173	568

Standard spool size 1000 feet

*Capacitance between conductors.

**Capacitance between one conductor and the other connected to the shield.

RATING

- NEC type FPLR
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

[†] 1083 has a 22 AWG solid tinned copper drain wire

- Select cables are available in outdoor and direct burial versions. See Aquaseal® product line for details
- Orange ripcord under jacket
- Available in a variety of Colors See Tech. Reference Section (Page 199).

COLOR CODE

Cond. No.	Conductor Colors	Cond. No.	Conductor Colors
1	Black	6	Yellow
2	Red	7	Purple
3	Brown	8	Green
4	Blue	9	Red/Black
5	Orange	10	Red/White
JACKET: Red			

WEST PENN WIRE

Fire Alarm Signaling Cable

Power - Limited/Unshielded Addressable System Data Cable



DESCRIPTION

- ASTM bare copper • Copolene® insulation • Short overall twist lengths
- Polyester binders as required • PVC fillers as required • Unshielded construction • Overall PVC jacket

RATING

- NEC type FPL
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor data fire alarm cable for:

- Data circuits
- Initiating circuits
- Notification circuits
- Addressable systems

SPECIAL NOTES

- Orange ripcord under jacket

Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance		Nom. Vel. of Prop
			inch	mm	inch	mm	inch	mm	pf / ft*	pf / m*	
D980	1 Pair	18 Solid 6.5 Ω /M'	.015	.38	.030	.76	.182	4.62	16	52	71%
D982	4	18 Solid 6.5 Ω /M'	.015	.38	.030	.76	.230	5.84	16	52	71%
D990	1 Pair	16 Solid 4.1 Ω /M'	.015	.38	.030	.76	.223	5.66	18	59	71%

Standard spool size 1000 feet

*Capacitance between conductors.

COLOR CODE

All
Cables

1. Black, 2. Red, 3. Brown, 4. Blue

JACKET: Red

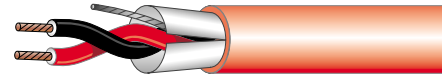
Fire Protective Signaling Cable

DESCRIPTION

- ASTM bare copper • Copolene® insulation
- Short overall twist lengths • Polyester binders as required
- PVC fillers as required • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall PVC jacket



Shielded/Power - Limited
Data Grade **Addressable System**



Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance				Nom. Vel. of Prop
			inch	mm	inch	mm	inch	mm	pf/ft*	pf/m*	pf/ft**	pf/m**	
D975	1 Pair	18 Solid 6.5 Ω/M'	.015	.38	.030	.76	.210	5.33	25	82	45	148	71%
D976	3	18 Solid 6.5 Ω/M'	.015	.38	.030	.76	.220	5.59	25	82	45	148	71%
D977	4	18 Solid 6.5 Ω/M'	.015	.38	.030	.76	.240	6.10	25	82	45	148	71%
D991	1 Pair	16 Solid 4.1 Ω/M'	.015	.38	.030	.76	.226	5.74	30	98	54	177	71%
D989	3	16 Solid 4.1 Ω/M'	.015	.38	.030	.76	.250	6.35	30	98	54	177	71%
D993	4	16 Solid 4.1 Ω/M'	.015	.38	.030	.76	.270	6.86	30	98	54	177	71%
D995	1 Pair	14 Solid 2.6 Ω/M'	.020	.51	.030	.76	.262	6.65	30	98	54	177	66%
D999	1 Pair	12 Solid 1.8 Ω/M'	.020	.51	.030	.76	.292	7.42	35	115	63	207	66%

RATING

- NEC type FPL
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor data fire alarm cable for:

- Data circuits
- Initiating circuits
- Notification circuits
- Addressable systems

SPECIAL NOTES

- Orange ripcord under jacket

Standard spool size 1000 feet

*Capacitance between conductors.

**Capacitance between one conductor and the other connected to the shield.

COLOR CODE	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

WEST PENN WIRE

Fire Alarm Signaling Plenum Cable

Power - Limited/Unshielded

Plenecon II® Extra Flexible



DESCRIPTION

- ASTM bare copper
- Polymer alloy insulation
- Twisted pair or cabled construction
- Polyester binders as required
- Flexible plenum jacket

RATING

- NEC type FPLP
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor within ducts, plenums, and other spaces used for environmental air for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- Capacitance of unshielded cable may vary depending on the installation environment.
- INSTALLATION PRECAUTIONS for plenum cable: refer to the Technical Reference Section
- Available in a variety of Colors See Tech. Reference Section (Page 199)

Catalog No.	No. of Conds.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance	
			inch	mm	inch	mm	inch	mm	pf/ft*	pf/m*
60980B	1 Pair	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.142	3.61	29	95
60982B	4	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.175	4.45	29	95
60991B°	1 Pair	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.161	4.09	32	105
60164B	4	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.220	5.59	32	105
60993B°	1 Pair	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.191	4.86	35	115
60700B	4	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.252	6.40	35	115
60995B	1 Pair	12 Solid 1.8 Ω/M'	.012	.30	.015	.38	.225	5.72	45	148

Standard spool size 1000 feet

*Capacitance between conductors.

COLOR CODE

All Cables

1. Black, 2. Red, 3. Brown, 4. Blue

JACKET: Red

Fire Alarm Signaling Plenum Cable

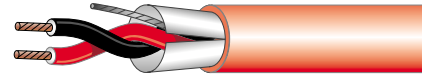
DESCRIPTION

- ASTM bare copper • Polymer alloy insulation
- Twisted pair or cabled construction • Polyester binders as required • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Flexible plenum jacket

Overall Shielded/Power-Limited



Extra Flexible *Plenecon II*®



Catalog No.	No. of Conds.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance			
			inch	mm	inch	mm	inch	mm	pf/ft*	pf/m*	pf/ft**	pf/m**
60975B°	1 Pair	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.148	3.76	54	177	97	318
60977B	4	18 Solid 6.5 Ω/M'	.010	.25	.015	.38	.178	4.52	54	177	97	318
60990B	1 Pair	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.166	4.22	61	200	110	361
603164B	4	16 Solid 4.1 Ω/M'	.010	.25	.015	.38	.210	5.33	61	200	110	361
60992B	1 Pair	14 Solid 2.6 Ω/M'	.012	.30	.015	.38	.198	5.03	84	276	151	495
60994B NEW	1 Pair	12 Solid 1.8 Ω/M'	.012	.30	.015	.38	.224	5.69	96	315	173	567

Standard spool size 1000 feet

*Capacitance between conductors.

**Capacitance between one conductor and the other connected to the shield.

RATING

- NEC type FPLP
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor within ducts, plenums, and other spaces used for environmental air for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- INSTALLATION PRECAUTIONS for plenum cable: refer to the Technical Reference Section
- ° Available in a variety of Colors See Tech. Reference Section (Page 199)

Data Grade Fire Alarm Plenum Cable

Catalog No.	No. of Conds.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance			
			inch	mm	inch	mm	inch	mm	pf/ft*	pf/m*	pf/ft**	pf/m**
D60975△	1 Pair	18 Solid 6.5 Ω/M'	.012	.30	.010	.25	.185	4.70	25	82	45	148
D60990△	1 Pair	16 Solid 4.1 Ω/M'	.015	.38	.010	.25	.220	5.59	30	98	54	177

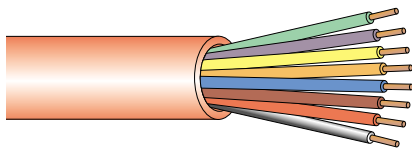
△ New Data Grade version for addressable systems contain inner binder jacket and employ fluoropolymer outer jacket.

COLOR CODE	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

WEST PENN WIRE

Fire Alarm Signaling Cable

Nonpower - Limited/Unshielded



DESCRIPTION

- ASTM bare copper
- PVC insulation with nylon
- Twisted pair or cabled construction
- Polyester binders as required
- Overall PVC jacket

RATING

- NEC type NPLF
- (UL) or (ETL)us Listed
- Intended for NPLF systems operating at 150volts or less as defined in NEC Article 760

APPLICATIONS

Indoor for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- Orange ripcord under jacket

Catalog No.	No. of Conds.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.	
			inch	mm	inch	mm	inch	mm
1980	1 Pair	18 Solid 6.5 Ω /M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.232	5.89
1982	4	18 Solid 6.5 Ω /M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.253	6.43
1984	6	18 Solid 6.5 Ω /M'	.016 PVC .005 Nylon	.40 .13	.042	1.06	.317	8.05
1986	8	18 Solid 6.5 Ω /M'	.016 PVC .005 Nylon	.40 .13	.042	1.06	.363	9.22
1988	10	18 Solid 6.5 Ω /M'	.016 PVC .005 Nylon	.40 .13	.052	1.32	.420	10.67
1990	1 Pair	16 Solid 4.1 Ω /M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.252	6.40
1992	4	16 Solid 4.1 Ω /M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.276	7.01
1994	1 Pair	14 Solid 2.6 Ω /M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.278	7.06

Standard spool size 1000 feet

COLOR CODE

All Cables

1. Black, 2. Red, 3. Brown, 4. Blue, 5. Orange,
6. Yellow, 7. Violet, 8. Green, 9. Red/Black, 10. Red/White

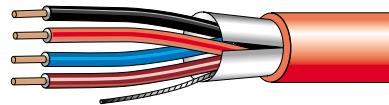
JACKET: Red

Fire Alarm Signaling Cable

DESCRIPTION

- ASTM bare copper • PVC insulation with nylon • Twisted pair or cabled construction
- Polyester binders as required • Shield 100% coverage of aluminum polyester foil with TC drain wire • Overall PVC jacket

Overall Shielded/**Nonpower - Limited**



Catalog No.	No. of Conds	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.		Nom. Capacitance			
			inch	mm	inch	mm	inch	mm	pf/ft*	pf/m*	pf/ft**	pf/m**
1975	1 Pair	18 Solid 6.5 Ω/M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.244	6.20	52	171	94	308
1977	4	18 Solid 6.5 Ω/M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.265	6.73	52	171	94	308
1991	1 Pair	16 Solid 4.1 Ω/M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.264	6.71	57	187	103	338
1993	4	16 Solid 4.1 Ω/M'	.016 PVC .005 Nylon	.40 .13	.042	1.07	.288	7.31	57	187	103	338
1995	1 Pair	14 Solid 2.6 Ω/M'	.016 PVC .005 Nylon	.40 .13	.037	.94	.284	7.21	64	210	115	377
1997	4	14 Solid 2.6 Ω/M'	.016 PVC .005 Nylon	.40 .13	.042	1.07	.388	9.86	64	210	115	377
1999	1 Pair	12 Solid 1.8 Ω/M'	.016 PVC .005 Nylon	.40 .13	.042	1.07	.328	8.33	73	240	131	430

Standard spool size 1000 feet

*Capacitance between conductors.

**Capacitance between one conductor and the other connected to the shield.

RATING

- NEC type NPLF
- (UL) or (ETL)us Listed
- Intended for NPLF systems operating at 150volts or less as defined in NEC Article 760

APPLICATIONS

Indoor for:

- Audio circuits
- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- Orange ripcord under jacket

COLOR CODE

All Cables

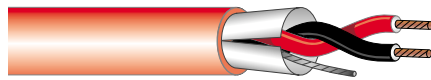
1. Black, 2. Red, 3. Brown, 4. Blue

JACKET: Red

WEST PENN WIRE

Fire Alarm Signaling Plenum Cable

Nonpower - Limited/Overall Shielded and Unshielded Plenum Cable



DESCRIPTION

- ASTM bare copper • Fluoropolymer insulation
- Twisted pair or cabled construction • Polyester binders as required
- Shield 100% coverage of aluminum polyester foil with TC drain wire
- Overall fluoropolymer jacket

RATING

- NEC type NPLFP
- (UL) or (ETL)us Listed
- Intended for NPLF systems operating at 150volts or less as defined in NEC Article 760

APPLICATIONS

Indoor environmental air, Article 760 of the NEC:

- Control circuits
- Initiating circuits
- Notification circuits

SPECIAL NOTES

- Orange ripcord under jacket

[†] Unshielded cable design

Catalog No.	No. of Conds.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. Jacket Thickness		Nom. O.D.	
			inch	mm	inch	mm	inch	mm
251980 [†]	1 Pair	18 Solid 6.5 Ω/M'	.020	.51	.010	.25	.185	4.70
251975	1 Pair	18 Solid 6.5 Ω/M'	.020	.51	.010	.25	.195	4.95
251976	3	18 Solid 6.5 Ω/M'	.020	.51	.010	.25	.205	5.21
251977	4	18 Solid 6.5 Ω/M'	.020	.51	.010	.25	.215	5.46
251991	1 Pair	16 Solid 4.1 Ω/M'	.020	.51	.010	.25	.214	5.44
251989	3	16 Solid 4.1 Ω/M'	.020	.51	.010	.25	.225	5.72
251993	4	16 Solid 4.1 Ω/M'	.020	.51	.010	.25	.250	6.35
251994 [†]	1 Pair	14 Solid 2.6 Ω/M'	.020	.51	.010	.25	.210	5.33
251995	1 Pair	14 Solid 2.6 Ω/M'	.020	.51	.010	.25	.220	5.59
251997	4	14 (19x27) 2.7 Ω/M'	.020	.51	.010	.25	.344	8.74

Standard spool size 1000 feet

COLOR CODE

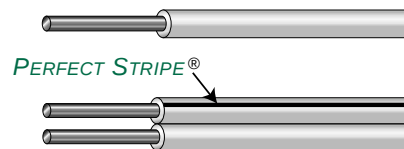
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

Fire Alarm Signaling Cable

DESCRIPTION

- ASTM bare copper
- PVC insulation
- Two conductor parallel features *PERFECT STRIPE*®

One and Two Conductor/Power - Limited



Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. O.D.		Colors
			inch	mm	inch	mm	
961°	1	16 Solid 4.1 Ω /M'	.020	.51	.091	2.31	Black, Green, Brown, White, Red, Orange, Yellow
962°	1	14 Solid 2.6 Ω /M'	.020	.51	.104	2.64	

Standard spool size 1000 feet

RATING

- NEC type FPL
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

APPLICATIONS

Indoor for:

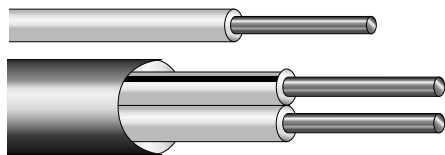
- Power—Limited Fire Protective Circuits
- ° Available in a variety of Colors See Tech. Reference Section (Page 199)

Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. O.D.		Colors
			inch	mm	inch	mm	
970°	2	18 Solid 6.5 Ω /M'	.032	.81	.104 x .204	2.64 x 5.18	Red, White, Orange, Brown, Blue, Black
971°	2	16 Solid 4.1 Ω /M'	.032	.81	.115 x .225	2.92 x 5.72	White, Red, Black
972°	2	14 Solid 2.6 Ω /M'	.032	.81	.128 x .250	3.25 x 6.35	White, Red, Black
974°	2	12 Solid 1.8 Ω /M'	.032	.81	.146 x .300	3.71 x 7.62	White, Red, Black

Standard spool size 1000 feet

Fire Alarm Signaling Plenum Cable

Power - Limited/One and Two Conductor



DESCRIPTION

- ASTM bare copper
- Fluoropolymer insulation
- Two conductor has a flexible red plenum jacket

RATING

- NEC type FPLP
- (UL) or (ETL)us Listed
- Meets 300 volt requirement as specified in Article 760 of the NEC

SPECIAL NOTES

Products 506970—506974

Conductor Colors: 1. Black, 2. Red

Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom. O.D.		Colors
			inch	mm	inch	mm	
6961	1	16 Solid 4.1 Ω /M'	.015	.38	.081	2.06	Red, Black
6962	1	14 Solid 2.6 Ω /M'	.015	.38	.094	2.39	Red, Black

Standard package size: 4 x 1000 feet

Catalog No.	No. of Cond.	AWG Size & Stranding Nom. D.C.R.	Nom. Insulation Thickness		Nom Jacket Thickness		Nom. O.D.		Jacket Colors
			inch	mm	inch	mm	inch	mm	
506970	2	18 Solid 6.5 Ω /M'	.010	.25	.015	.38	.095 x .155	2.41 x 3.94	Red, White
506971	2	16 Solid 4.1 Ω /M'	.010	.25	.015	.38	.102 x .175	2.59 x 4.45	Red, White
506972	2	14 Solid 2.6 Ω /M'	.012	.30	.015	.38	.120 x .208	3.05 x 5.28	Red
506974	2	12 Solid 1.8 Ω /M'	.012	.30	.015	.38	.136 x .245	3.45 x 6.22	Red

Standard spool size 1000 feet