

TAPPAN

Wire & Cable Inc.

Stocking Manufacturer of :

Custom Cables

Fire Alarm Cables

High Temperature Cables

Home Automation Cables

Sound & Security Cables

600V Tray Cables

Coaxial Cables

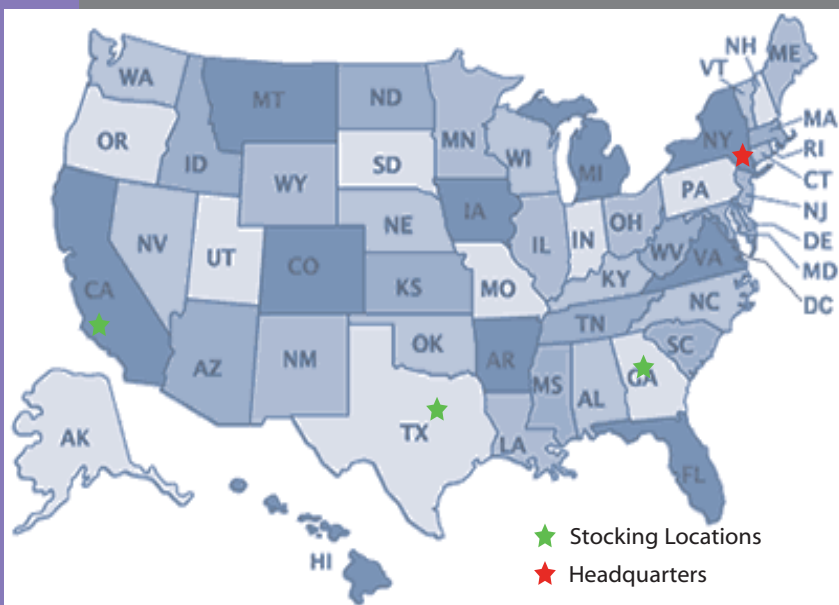
Home Theater Cables



Call the Hotline 1-800-Wire-911

Tappan Wire & Cable Inc., founded in 1978, has grown to become one of the leading independent wire and cable manufacturers in the United States.

The company currently is manufacturing in a 200,000 square foot facility with over 200 employees. Tappan Wire has established itself as a quality producer of wire and cable products sold through distribution throughout Europe, North, Central and South America, with stocking locations in New York, Georgia, Texas and California.



Products include electronic RS232 cable, fire alarm, sound & security, access control, tray cable, high temperature cable, chemical resistant cable, halogen free cable, coaxial video cable, automotive, industrial, water blocked direct burial cable, audio cable, home automation & home theater cables.



Extrusion capabilities include PVC, Polyethylene, Polypropylene, PVDF, TPE, Nylon, XLPE, CPE, Low Smoke Plenum rated PVC, Fluorocopolymer & FEP®. Gauges range from 8 to 26 and from 1 to 75 conductors. Cables can be shielded with aluminum for RF protection or copper braid for EMI protection. Products are UL, NEC and CSA listed including non-power limited, low smoke 0-halogen, riser and plenum ratings. The cable products are proudly printed "Made in the USA"

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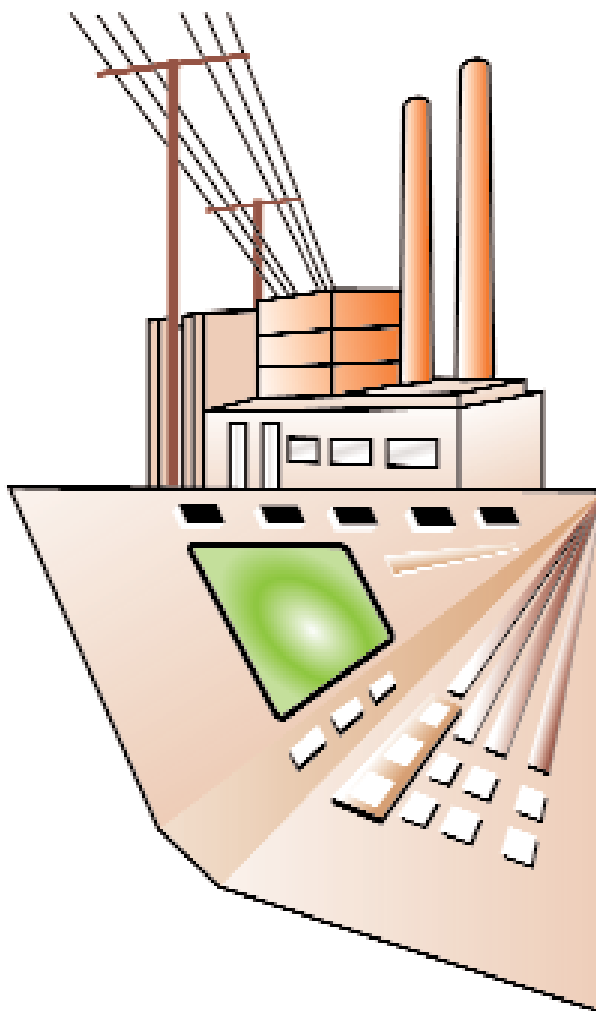
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ARTICLE 336**ARTICLE 336 NEC****Power and Control circuits, rated for 600-volts**

Tray Cable: Type TC

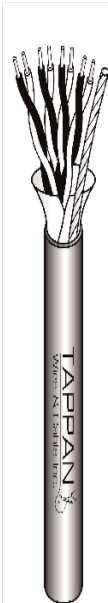
MULTI RATED: TC, PLTC, FPL, AND DIRECT BURIAL

U.L. Standard 1277 tray cable has been used in industry for over thirty years. It is easy to install and durable. This type of cable is rated for 600 volts and can be used for power and control circuits. It is available for cable tray use, conduit, direct burial, supported or messenger wire. It can be used in division 2 hazardous locations. Tray cables are listed per U.L. 1277 as flame retardant which means the cable minimizes flame propagation if exposed to fire.



ARTICLE 336

600V TRAY CABLE Multi-Pair, Overall Shielded Tray Cable

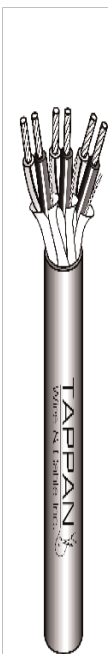


APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, DIRECT BURIAL, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 600V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN BULK OR 1000 FT. SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER, PVC/NYLON INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE, RIPCORDER, PVC JACKET, ALSO AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK, COLOR CODE CHART 595

Tray Cable (Overall Shielded Pairs)

AWG	#/PAIRS	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	7/26	51	.388	43	TC	65	V49956
18	4	7/26	51	.447	43	TC	101	V49955
18	6	7/26	51	.515	43	TC	139	V49954
18	8	7/26	51	.566	43	TC	175	V49953
18	10	7/26	51	.643	43	TC	213	V49952
18	12	7/26	51	.668	43	TC	246	V49951
16	2	7/24	46	.423	47.9	TC	83	V59958
16	4	7/24	46	.489	47.9	TC	134	V59957
16	6	7/24	46	.565	47.9	TC	187	V59956
16	8	7/24	46	.652	47.9	TC	262	V59979
16	10	7/24	46	.708	47.9	TC	292	V59955
16	12	7/24	46	.736	47.9	TC	340	V59954

600V TRAY CABLE Multi-Pair, Individually Shielded Plus Overall Shield Tray Cable



APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, DIRECT BURIAL, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 600V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN BULK OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER, PVC/NYLON INSULATION INDIVIDUALLY SHIELDED PAIRS, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE FOR EACH SHIELDED PAIR WITH OVERALL SHIELD, RIPCORDER, PVC JACKET, ALSO AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK, COLOR CODE CHART 595

Tray Cable (Individually Shielded Pairs Plus Overall Shield)

AWG	#/PAIRS	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	7/26	51	.396	43	TC	68	V49950
18	4	7/26	51	.490	43	TC	111	V49949
18	6	7/26	51	.524	43	TC	148	V49948
18	8	7/26	51	.575	43	TC	187	V49947
18	10	7/26	51	.651	43	TC	227	V49946
18	12	7/26	51	.677	46	TC	264	V49945
16	2	7/24	44	.432	47.9	TC	86	V59953
16	4	7/24	46	.537	47.9	TC	145	V59952
16	6	7/24	46	.575	47.9	TC	196	V59951
16	8	7/24	46	.632	47.9	TC	250	V59950
16	10	7/24	46	.717	47.9	TC	306	V59949
16	12	7/24	46	.746	47.9	TC	357	V59948

THESE CABLES ARE ALSO AVAILABLE WITH QUAD RATING: TC / PLTC / NPLF / FPL / DIRECT BURIAL.

ARTICLE 336

600V TRAY CABLE

Multi-Conductor, Unshielded Tray Cable



APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, DIRECT BURIAL, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 600V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN BULK OR 1000 FT. SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER, PVC/NYLON INSULATION, RIPCORDER, PVC JACKET ALSO AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK COLOR CODE CHART 17

Tray Cable

AWG	#/COND	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	7/26	74	.260	29.4	TC	35	V40003
18	3	7/26	89	.274	24.4	TC	44	V40103
18	4	7/26	89	.296	24.4	TC	54	V40002
18	5	7/26	89	.308	24.4	TC	62	V40066
18	6	7/26	89	.330	24.4	TC	72	V40067
18	7	7/26	89	.345	24.4	TC	81	V40104
18	9	7/26	89	.383	24.4	TC	100	V40105
18	12	7/26	89	.428	24.4	TC	126	V40106
16	2	7/24	68	.280	31.9	TC	44	V50021
16	3	7/24	81	.296	26.8	TC	57	V50096
16	4	7/24	81	.320	26.8	TC	70	V50002
16	5	7/24	81	.334	26.8	TC	83	V50097
16	6	7/24	81	.358	26.8	TC	96	V50048
16	7	7/24	81	.375	26.8	TC	108	V50098
16	9	7/24	81	.418	26.8	TC	135	V50099
16	12	7/24	81	.468	26.8	TC	173	V50100
14	2	7/22	62	.310	35.7	TC	58	V60005
14	4	7/22	72	.356	30.5	TC	94	V60037
12	2	7/20	55	.354	39.5	TC	78	V70001
12	4	7/20	64	.409	34.1	TC	132	V70014

THESE CABLES ARE ALSO AVAILABLE WITH QUAD RATING: TC / PLTC / NPLF / FPL / DIRECT BURIAL.

ARTICLE 336

600V TRAY CABLE

Multi-Conductor, Overall Shield Tray Cable



APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, DIRECT BURIAL, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 600V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN BULK OR 1000 FT. SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER, PVC/NYLON INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE, RIPCORDER, PVC JACKET, ALSO AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK, COLOR CODE CHART 17

Tray Cable

AWG	#/COND	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	7/26	51	.260	43	TC	37	V40024
18	3	7/26	51	.274	43	TC	46	V40038
18	4	7/26	51	.296	43	TC	56	V40049
18	6	7/26	51	.330	43	TC	75	V40061
18	8	7/26	51	.375	43	TC	93	V40107
18	12	7/26	51	.428	43	TC	128	V40108
16	2	7/24	46	.280	47.9	TC	46	V50031
16	3	7/24	46	.296	47.9	TC	58	V50056
16	4	7/24	46	.320	47.9	TC	72	V50009
16	5	7/24	46	.334	47.9	TC	84	V50101
16	6	7/24	46	.358	47.9	TC	97	V50102
16	7	7/24	46	.375	47.9	TC	110	V50103
16	9	7/24	46	.418	47.9	TC	136	V50104
16	12	7/24	46	.468	47.9	TC	174	V50105
14	2	7/22	40	.314	55.2	TC	59	V60007
14	4	7/22	40	.361	55.2	TC	97	V60019
12	2	7/20	35	.354	62.5	TC	80	V70009
12	4	7/20	35	.409	62.5	TC	134	V70015

THESE CABLES ARE ALSO AVAILABLE WITH QUAD RATING: TC / PLTC / NPLF / FPL / DIRECT BURIAL.

ARTICLE 725 NEC**Remote Control, Signaling, and Power Limited Circuits**

General Purpose Cable: Type CL2, CL3, CL2R, CL3R

Article 725 contains the requirements for remote-control, signaling and power-limited circuits that are not integral to a device or appliance. It includes circuits for burglar alarms, access control, sound, nurse call, intercoms, some computer networks, some lighting dimmer controls, and low-voltage industrial controls.

Article 725 provides alternative requirements for minimum wire sizes, adjustment factors, overcurrent protection, insulation requirements, wiring methods, and materials that are 300V.



ARTICLE 725

MULTI-PAIR, EACH PAIR SHIELDED, PLENUM RATED



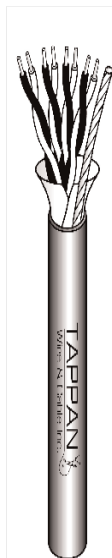
APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL AND OTHER LOW VOLTAGE CIRCUITS THAT ARE POWER-LIMITED
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD APPLIED OVER EACH PAIR WITH TINNED COPPER DRAIN WIRE, LOW SMOKE INSULATION AND JACKET, RIPCORDER, JACKET COLOR: WHITE, COLOR CODE CHART: 553

Multi-Pair Shielded (Each Pair Shielded), Plenum Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.177	40.5	CMP/CL3P/FPLP	19	P29656
22	2	STR.	.148	39.7	CMP/CL3P/FPLP	19	P29691
22	3	SOL.	.189	40.5	CMP/CL3P/FPLP	25	P29655
22	3	STR.	.178	39.7	CMP/CL3P/FPLP	26	P29996
22	4	SOL.	.222	40.5	CMP/CL3P/FPLP	33	P29654
22	6	SOL.	.239	40.5	CMP/CL3P/FPLP	46	P29652

Material is available in 22 AWG - 12 AWG

MULTI-PAIR, OVERALL SHIELD, PLENUM RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL AND OTHER LOW VOLTAGE CIRCUITS THAT ARE POWER-LIMITED
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, OVERALL ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, SMOKE GUARD, LOW SMOKE INSULATION AND JACKET, RIPCORDER, JACKET COLOR: WHITE, COLOR CODE CHART: 553

Multi-Pair Shielded (Overall Shield), Plenum Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.173	40.5	CMP/CL3P/FPLP	17	P29912
22	2	STR.	.148	39.7	CMP/CL3P/FPLP	20	P29831
22	3	SOL.	.185	40.5	CMP/CL3P/FPLP	23	P29641
22	3	STR.	.199	39.7	CMP/CL3P/FPLP	24	P29689
22	6	SOL.	.235	40.5	CMP/CL3P/FPLP	40	P29638
22	6	STR.	.253	39.7	CMP/CL3P/FPLP	43	P29929

Material is available in 22 AWG - 12 AWG

ARTICLE 725

MULTI-PAIR, EACH PAIR SHIELDED W/ OVERALL SHIELD, RISER RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL, SUNLIGHT RESISTANT.
CODE RESTRICTIONS:	FOR USE WITH POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD APPLIED OVER EACH PAIR WITH TINNED COPPER DRAIN WIRE, PVC INSULATION AND JACKET, RIPCORDER, JACKET COLOR: GRAY, COLOR CODE CHART 553

Multi-Pair Shielded (Each Pair Shielded w/ Overall Shield), Riser Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.189	27.5	CMR/CL3R	20	R29396
22	2	STR.	.160	27.1	CMR/CL3R	20	R29823
22	3	STR.	.216	27.1	CMR/CL3R	29	R29395
22	6	SOL.	.251	27.6	CMR/CL3R	46	R29390

MULTI-PAIR, OVERALL SHIELD, RISER RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR POWER-LIMITED CIRCUITS USE EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS. SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, OVERALL ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, PVC INSULATION AND JACKET, RIPCORDER, JACKET COLOR: GRAY, COLOR CODE CHART 553

Multi-Pair Shielded (Overall Shield), Riser Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	1	SOL.	.123	40.5	CMR/CL3R	11	R29906
22	1	STR.	.130	39.7	CMR/CL3R	11	R29948
22	3	SOL.	.197	40.5	CMR/CL3R	24	R29904
22	3	STR.	.211	39.7	CMR/CL3R	25	R29946
22	6	SOL.	.247	40.5	CMR/CL3R	41	R29335
22	6	STR.	.265	39.7	CMR/CL3R	44	R29943

ARTICLE 725

MULTI-PAIR, UNSHIELDED, RISER RATED

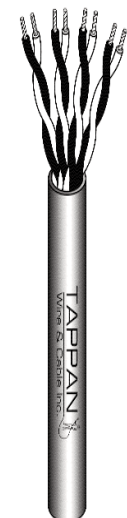


- APPLICATIONS:** BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL, SUNLIGHT RESISTANT
- CODE RESTRICTIONS:** FOR USE WITH POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
- FEATURES:** AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** BARE COPPER CONDUCTORS IN PAIRS, PVC INSULATION AND JACKET, RIPCORD
JACKET COLOR: GRAY, COLOR CODE CHART 553.

Multi-Pair Unshielded, Riser Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	1	STR.	.130	25.7	CMR/CL3R/FPLR	10	R29985
22	2	SOL.	.185	22.3	CMR/CL3R/FPLR	17	R29909
22	2	STR.	.198	21.9	CMR/CL3R/FPLR	18	R29984
22	3	STR.	.211	21.9	CMR/CL3R/FPLR	24	R29983
22	4	SOL.	.213	22.3	CMR/CL3R/FPLR	29	R29907
22	6	STR.	.265	21.9	CMR/CL3R/FPLR	42	R29980

MULTI-PAIR, UNSHIELDED, PLENUM RATED



- APPLICATIONS:** BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL
- CODE RESTRICTIONS:** FOR USE WITH ALL POWER-LIMITED CIRCUITS
- FEATURES:** AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** BARE COPPER CONDUCTORS IN PAIRS, LOW SMOKE INSULATION AND JACKET, RIPCORD
JACKET COLOR: OFF-WHITE, COLOR CODE CHART 553

Multi-Pair Unshielded, Plenum Rated

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	1	SOL.	.111	26	CMP/CL3P/FPLP	9	P29915
22	1	STR.	.118	25.7	CMP/CL3P/FPLP	9	P29935
22	2	SOL.	.173	22.3	CMP/CL3P/FPLP	16	P29914
22	2	STR.	.186	21.9	CMP/CL3P/FPLP	17	P29966
22	3	SOL.	.185	22.3	CMP/CL3P/FPLP	22	P29647
22	3	STR.	.199	21.9	CMP/CL3P/FPLP	23	P29965
22	4	SOL.	.201	22.3	CMP/CL3P/FPLP	27	P29646
22	6	SOL.	.235	22.3	CMP/CL3P/FPLP	39	P29612
22	6	STR.	.253	21.9	CMP/CL3P/FPLP	41	P29962

ARTICLE 725

MULTI-CONDUCTOR, UNSHIELDED, RISER RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, PVC INSULATION AND JACKET, RIPCORD JACKET COLOR: GRAY, COLOR CODE CHART 17

Unshielded, Riser Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.123	26	CMR/CL3R/FPLR	9	R20374
22	2	STR.	.130	25.7	CMR/CL3R/FPLR	10	R20004
22	4	SOL.	.140	15.2	CMR/CL3R/FPLR	14	R20376
22	4	STR.	.149	14.9	CMR/CL3R/FPLR	15	R20045
22	5	STR.	.156	21.9	CMR/CL3R/FPLR	19	R20046
22	6	STR.	.167	21.9	CMR/CL3R/FPLR	22	R20047
22	8	STR.	.191	21.9	CMR/CL3R/FPLR	28	R20025
22	10	STR.	.204	29.9	CMR/CL3R/FPLR	34	R20051
22	12	STR.	.219	21.9	CMR/CL3R/FPLR	39	R20487
20	2	STR.	.142	27.7	CMR/CL3R/FPLR	13	R30017
20	4	STR.	.163	16.3	CMR/CL3R/FPLR	21	R30006
18	2	STR.	.166	29.3	CMR/CL3R/FPLR	18	R40018
18	4	STR.	.192	25.3	CMR/CL3R/FPLR	31	R40049
18	6	STR.	.229	25.3	CMR/CL3R/FPLR	51	R40051
18	8	STR.	.251	25.3	CMR/CL3R/FPLR	57	R40052
18	10	STR.	.269	25.3	CMR/CL3R/FPLR	70	R40054
18	12	STR.	.291	25.3	CMR/CL3R/FPLR	83	R40024
16	2	STR.	.190	32	CMR/CL3R/FPLR	26	R50003
16	4	STR.	.222	27.8	CMR/CL3R/FPLR	46	R50045
14	2	STR.	.228	32.8	CL3R/FPLR	39	R60012
14	4	STR.	.267	28.5	CL3R/FPLR	70	R60014
12	2	STR.	.280	34.6	CL3R/FPLR	58	R70003

ARTICLE 725

MULTI-CONDUCTOR, UNSHIELDED, PLENUM RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, LOW SMOKE INSULATION AND JACKET, RIPCORD JACKET COLOR: WHITE CONDUCTOR COLOR CODE CHART 17

Unshielded, Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.111	26	CMP/CL3P/FPLP	8	P20175
22	2	STR.	.118	25.7	CMP/CL3P/FPLP	9	P20031
22	3	STR.	.126	21.9	CMP/CL3P/FPLP	12	P20134
22	4	SOL.	.128	22.3	CMP/CL3P/FPLP	14	P20177
22	4	STR.	.137	21.9	CMP/CL3P/FPLP	15	P20035
22	5	STR.	.144	21.9	CMP/CL3P/FPLP	18	P20135
22	6	STR.	.155	21.9	CMP/CL3P/FPLP	21	P20008
22	8	STR.	.179	21.9	CMP/CL3P/FPLP	27	P20018
22	10	STR.	.192	21.9	CMP/CL3P/FPLP	33	P20140
22	12	STR.	.207	21.9	CMP/CL3P/FPLP	39	P20044
22	15	STR.	.228	21.9	CMP/CL3P/FPLP	48	P20145
20	2	STR.	.130	27.7	CMP/CL3P/FPLP	12	P30016
20	3	STR.	.139	23.9	CMP/CL3P/FPLP	16	P30033
20	4	STR.	.151	23.9	CMP/CL3P/FPLP	21	P30047
18	2	STR.	.154	29.3	CMP/CL3P/FPLP	17	P40020
18	2	SOL.	.145	30.6	CMP/CL3P/FPLP	16	P40559
18	3	STR.	.165	25.3	CMP/CL3P/FPLP	24	P40024
18	4	STR.	.180	25.3	CMP/CL3P/FPLP	30	P40031
18	6	STR.	.206	25.3	CMP/CL3P/FPLP	43	P40065
18	8	STR.	.239	25.3	CMP/CL3P/FPLP	57	P40030
18	10	STR.	.257	25.3	CMP/CL3P/FPLP	70	P40166
18	12	STR.	.279	25.3	CMP/CL3P/FPLP	83	P40168
18	15	STR.	.308	25.3	CMP/CL3P/FPLP	102	P40171
16	2	STR.	.178	32	CMP/CL3P/FPLP	25	P50032
16	3	STR.	.191	27.8	CMP/CL3P/FPLP	35	P50012
16	4	STR.	.210	27.8	CMP/CL3P/FPLP	46	P50059
14	2	STR.	.216	32.8	CL3P/FPLP	37	P60040
14	3	STR.	.232	28.5	CL3P/FPLP	53	P60012
14	4	STR.	.255	28.5	CL3P/FPLP	69	P60013
12	2	STR.	.268	34.6	CL3P/FPLP	57	P70031

ARTICLE 725

MULTI-CONDUCTOR, OVERALL SHIELD, RISER RATED



- APPLICATIONS:** BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL, SUNLIGHT RESISTANT
- CODE RESTRICTIONS:** FOR USE WITH POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
- FEATURES:** AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE. PVC INSULATION AND JACKET, RIPCORD, JACKET COLOR: GRAY
COLOR CODE CHART 17

Overall Shield, Riser Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.123	40.5	CMR/CL3R/FPLR	10	R20540
22	2	STR.	.130	39.7	CMR/CL3R/FPLR	11	R20007
22	4	SOL.	.140	40.5	CMR/CL3R/FPLR	16	R20384
22	4	STR.	.149	39.7	CMR/CL3R/FPLR	17	R20030
22	6	STR.	.167	39.7	CMR/CL3R/FPLR	23	R20076
22	8	STR.	.191	39.7	CMR/CL3R/FPLR	30	R20024
22	10	STR.	.204	39.7	CMR/CL3R/FPLR	35	R20488
22	12	STR.	.219	39.7	CMR/CL3R/FPLR	41	R20081
20	2	STR.	.142	43.7	CMR/CL3R/FPLR	14	R30024
20	4	STR.	.163	43.7	CMR/CL3R/FPLR	23	R30042
18	2	STR.	.166	46.7	CMR/CL3R/FPLR	20	R40013
18	4	STR.	.192	46.7	CMR/CL3R/FPLR	33	R40005
18	6	STR.	.218	46.7	CMR/CL3R/FPLR	46	R40611
18	8	STR.	.251	46.7	CMR/CL3R/FPLR	59	R40014
18	10	STR.	.269	46.7	CMR/CL3R/FPLR	72	R40098
18	12	STR.	.291	46.7	CMR/CL3R/FPLR	84	R40075
16	2	STR.	.190	52	CMR/CL3R/FPLR	27	A50039
16	4	STR.	.222	52	CMR/CL3R/FPLR	48	R50031
14	2	STR.	.228	53.5	CL3R/FPLR	40	R60052
14	4	STR.	.267	53.5	CL3R/FPLR	71	R60024
12	2	STR.	.280	56.8	CL3R/FPLR	60	R70010

ARTICLE 725

MULTI-CONDUCTOR, OVERALL SHIELD, PLENUM RATED



APPLICATIONS:	BURGLAR ALARM, PUBLIC ADDRESS SYSTEMS, INTERCOMS, TELEPHONE STATIONS, SPEAKERS, INSTRUMENTATION, CONTROL AND OTHER LOW VOLTAGE CIRCUITS THAT ARE POWER-LIMITED
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER CONDUCTORS, OVERALL ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, LOW SMOKE PVC INSULATION AND JACKET, RIPCORD JACKET COLOR: WHITE COLOR CODE CHART 17

Shielded, (Overall Shield) Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	2	SOL.	.111	40.4	CMP/CL3P/FPLP	10	P20178
22	2	STR.	.118	39.7	CMP/CL3P/FPLP	10	P20032
22	3	STR.	.126	39.7	CMP/CL3P/FPLP	13	P20043
22	4	SOL.	.128	40.4	CMP/CL3P/FPLP	15	P20180
22	4	STR.	.137	39.7	CMP/CL3P/FPLP	16	P20270
22	6	STR.	.155	39.7	CMP/CL3P/FPLP	22	P20019
22	8	STR.	.179	39.7	CMP/CL3P/FPLP	29	P20037
22	10	STR.	.192	39.7	CMP/CL3P/FPLP	34	P20022
22	12	STR.	.207	39.7	CMP/CL3P/FPLP	40	P20023
22	15	STR.	.228	39.7	CMP/CL3P/FPLP	49	P20114
20	2	STR.	.130	43.7	CMP/CL3P/FPLP	13	P30006
20	3	STR.	.139	43.7	CMP/CL3P/FPLP	18	P30045
20	4	STR.	.151	43.7	CMP/CL3P/FPLP	22	P30003
18	2	STR.	.154	46.7	CMP/CL3P/FPLP	19	P40133
18	3	STR.	.165	46.7	CMP/CL3P/FPLP	25	P40032
18	4	STR.	.180	46.7	CMP/CL3P/FPLP	32	P40073
18	6	STR.	.228	46.7	CMP/CL3P/FPLP	45	P40040
18	8	STR.	.239	46.7	CMP/CL3P/FPLP	58	P40070
18	10	STR.	.257	46.7	CMP/CL3P/FPLP	71	P40041
18	12	STR.	.279	46.7	CMP/CL3P/FPLP	84	P40139
18	15	STR.	.308	46.7	CMP/CL3P/FPLP	104	P40142
16	2	STR.	.178	52	CMP/CL3P/FPLP	26	P50002
16	3	STR.	.191	52	CMP/CL3P/FPLP	37	P50022
16	4	STR.	.210	52	CMP/CL3P/FPLP	47	P50023
14	2	STR.	.216	53.5	CL3P/FPLP	39	P60022
14	3	STR.	.232	53.5	CL3P/FPLP	55	P60023
14	4	STR.	.550	53.5	CL3P/FPLP	71	P60024
12	2	STR.	.268	56.8	CL3P/FPLP	58	P70006

ARTICLE 725

POWER LIMITED TRAY CABLES

Unshielded, Waterblocked


APPLICATIONS:

SUITABLE FOR OUTDOOR USE AND INDOOR TRAYS. ALLOWS A VARIETY OF USES FOR: LOW VOLTAGE INDUSTRIAL PROCESS CONTROL CIRCUITS, POWER LIMITED CIRCUITS, POWER LIMITED FIRE ALARM CIRCUITS, POWER LIMITED TRAY CABLE PLTC

CODE RESTRICTIONS:

NEC TYPE FPL OR PLTC, UL LISTED, LISTED FOR DIRECT BURIAL, MEETS 300 VOLT REQUIREMENT AS SPECIFIED IN ARTICLE 725 AND 760 OF THE NEC

FEATURES:

AVAILABLE IN BULK OR 1000' REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS

CONSTRUCTION:

BARE COPPER, PVC/NYLON INSULATION, TWISTED PAIR OR CABLED CONSTRUCTION, WATER BLOCKED CONSTRUCTION, OVERALL SUNLIGHT AND MOISTURE RESISTANT PVC JACKET, JACKET COLOR: BLACK, COLOR CODE CHART 17

Unshielded, Waterblocked

AWG	#/COND.	STRAND	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1 PR	7	.242	29.45	PLTC / FPL	31	SW4986
18	4	7	.290	24.35	PLTC / FPL	52	SW4025
16	1 PR	7	.270	33.03	PLTC / FPL	42	SW5995
16	4	7	.314	26.85	PLTC / FPL	68	SW5002
14	1 PR	7	.304	36.67	PLTC / FPL	57	SW6998
14	4	7	.375	30.51	PLTC / FPL	102	SW6004
12	1 PR	7	.356	41.31	PLTC / FPL	81	SW7992

POWER LIMITED TRAY CABLES

Shielded, Waterblocked


APPLICATIONS:

SUITABLE FOR OUTDOOR USE AND INDOOR TRAYS. ALLOWS A VARIETY OF USES FOR: LOW VOLTAGE INDUSTRIAL PROCESS CONTROL CIRCUITS, POWER LIMITED CIRCUITS, POWER LIMITED FIRE ALARM CIRCUITS, POWER LIMITED TRAY CABLE PLTC

CODE RESTRICTIONS:

NEC TYPE FPL OR PLTC, UL LISTED, LISTED FOR DIRECT BURIAL, MEETS 300 VOLT REQUIREMENT AS SPECIFIED IN ARTICLE 725 AND 760 OF THE NEC

FEATURES:

AVAILABLE IN BULK OR 1000' REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS

CONSTRUCTION:

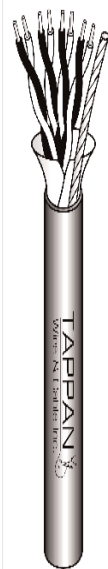
BARE COPPER, PVC/NYLON INSULATION, TWISTED PAIR OR CABLED CONSTRUCTION, OVERALL ALUMINUM SHIELD, WATER BLOCKED CONSTRUCTION, OVERALL SUNLIGHT AND MOISTURE RESISTANT PVC JACKET, JACKET COLOR: BLACK, COLOR CODE CHART 17

Shielded, Waterblocked

AWG	#/COND	STRAND	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1 PR	7	0.266	43.03	PLTC / FPL	40	U49995
18	4	7	0.291	41.92	PLTC / FPL	57	SW4028
16	1 PR	7	0.270	47.89	PLTC / FPL	47	SW5997
16	4	7	0.334	47.89	PLTC / FPL	80	SW5003
14	1 PR	7	0.300	57.04	PLTC / FPL	60	U60001
12	1 PR	7	0.348	66.08	PLTC / FPL	83	SW7993

ARTICLE 725

300V INSTRUMENTATION AND CONTROL CABLE Multi- Pair, Power Limited Tray Cable, Overall Shielded



APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 300V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN BULK OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS.
CONSTRUCTION:	STRANDED BARE COPPER, PVC INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE, RIPCORDER, PVC JACKET, AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK, COLOR CODE CHART 595.

Instrumentation and Control Cable (Overall Shielded Pairs)

AWG	#/PAIRS	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
20	1	7/28	59	.210	31.5	PLTC	26	U39956
20	4	7/28	59	.353	31.5	PLTC	68	U39955
20	8	7/28	59	.444	31.5	PLTC	116	U39954
20	12	7/28	59	.542	31.5	PLTC	175	U39953
20	16	7/28	59	.607	31.5	PLTC	222	U39952
20	20	7/28	59	.705	37.6	PLTC	292	U39951
20	24	7/28	59	.803	37.6	PLTC	346	U39950

Material is available in 20 AWG - 12 AWG

300V INSTRUMENTATION AND CONTROL CABLE Multi- Pair, Power Limited Tray Cable, Individually Shielded Plus Overall Shield



APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, WET LOCATIONS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE IN 300V TRAY APPLICATIONS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER, COLOR CODED PVC INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE FOR EACH SHIELDED PAIR, RIPCORDER, PVC JACKET, AVAILABLE WITH WATER BLOCK TAPE, JACKET COLOR: BLACK, COLOR CODE CHART 595

Instrumentation and Control Cable (Individually Shielded Pairs plus Overall Shield)

AWG	#/PAIRS	STRAND	OHMS	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
20	2	7/28	59	.344	31.5	PLTC	58	U39949
20	4	7/28	59	.416	31.5	PLTC	89	U39948
20	8	7/28	59	.481	31.5	PLTC	143	U39947
20	12	7/28	59	.581	31.5	PLTC	211	U39946
20	16	7/28	59	.646	31.5	PLTC	266	U39945
20	20	7/28	59	.696	31.5	PLTC	333	U39944
20	24	7/28	59	.780	31.5	PLTC	393	U39943

Material is available in 20 AWG - 12 AWG

ARTICLE 725

SPECIAL APPLICATIONS CABLE Waterblocked



- APPLICATIONS:** SUITABLE FOR OUTDOOR USE, INDOOR TRAYS, AND NON-CONDUIT PER NEC, ALLOWS A VARIETY OF USES FOR: INTERCOM SYSTEMS, SECURITY SYSTEMS, SOUND AND AUDIO, BACKGROUND MUSIC, POWER - LIMITED CONTROL CIRCUITS
- CODE RESTRICTIONS:** NEC TYPE FPL, UL LISTED, MEETS 300 VOLT REQUIREMENT AS SPECIFIED IN ARTICLE 725 AND 760 OF THE NEC
- FEATURES:** AVAILABLE IN BULK OR 1000' REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** TINNED COPPER, PVC INSULATION, SHORT OVERALL TWIST LENGTHS, PVC FILLERS AS REQUIRED, POLYESTER BINDERS AS REQUIRED, SHIELDED CONSTRUCTIONS CONTAIN 100% COVERAGE OF ALUMINUM POLYESTER FOIL WITH TC DRAIN WIRE, WATERBLOCKED CONSTRUCTION, OVERALL 105 DEGREE CELSIUS SUNLIGHT AND MOISTURE RESISTANT PVC JACKET

Two Conductor, Waterblocked, Shielded

AWG	#/COND.	STR/SOL	NOM. INSULATION THICKNESS	NOM. JACKET THICKNESS	NOM. O.D	NOM CAP. PF/FT	UL LISTING	AVG. LBS. PER MFT	SPEC #
22	2	STR	0.010	0.025	.148	35.34	CMR/CL3R	14	SW2033
20	2	STR	0.010	0.025	.160	39.01	CMR/CL3R	18	SW3002
18	2	STR	0.010	0.025	.180	44.38	CMR/CL3R	24	SW4988

SPECIAL APPLICATIONS CABLE Waterblocked



- APPLICATIONS:** SUITABLE FOR OUTDOOR USE, INDOOR TRAYS, AND NON-CONDUIT PER NEC, ALLOWS A VARIETY OF USES FOR: INTERCOM SYSTEMS, SECURITY SYSTEMS, SOUND AND AUDIO, BACKGROUND MUSIC, AND POWER - LIMITED CONTROL CIRCUITS
- CODE RESTRICTIONS:** NEC TYPE FPL, UL LISTED, MEETS 300 VOLT REQUIREMENT AS SPECIFIED IN ARTICLE 725 AND 760 OF THE NEC
- FEATURES:** AVAILABLE IN BULK OR 1000' REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** TINNED COPPER, PVC INSULATION, SHORT OVERALL TWIST LENGTHS, PVC FILLERS AS REQUIRED, POLYESTER BINDERS AS REQUIRED, SHIELDED CONSTRUCTIONS CONTAIN 100% COVERAGE OF ALUMINUM POLYESTER FOIL WITH TC DRAIN WIRE, WATERBLOCKED CONSTRUCTION, OVERALL 105 DEGREE CELSIUS SUNLIGHT AND MOISTURE RESISTANT PVC JACKET

Waterblocked, Unshielded

AWG	#/COND.	STR/SOL	NOM. INSULATION THICKNESS	NOM. JACKET THICKNESS	NOM. O.D	NOM CAP. PF/FT	UL LISTING	AVG. LBS. PER MFT	SPEC #
22	4	SOL	0.010	0.025	.160	19.88	CMR/CL3R	18	SW2034
18	2	STR	0.010	0.025	.180	28.08	CMR/CL3R	20	SW4036

ARTICLE 725

SPECIAL APPLICATIONS CABLE Waterblocked



APPLICATIONS:	SUITABLE FOR OUTDOOR USE, INDOOR TRAYS, AND NON-CONDUIT PER NEC, ALLOWS A VARIETY OF USES FOR: INTERCOM SYSTEMS, SECURITY SYSTEMS, SOUND AND AUDIO, BACKGROUND MUSIC, POWER - LIMITED CONTROL CIRCUITS
CODE RESTRICTIONS:	NEC TYPE FPL OR PLTC, UL LISTED, MEETS 300 VOLT REQUIREMENT AS SPECIFIED IN ARTICLE 725 AND 760 OF THE NEC
FEATURES:	AVAILABLE IN BULK OR 1000' REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	TINNED COPPER, PVC INSULATION, SHORT OVERALL TWIST LENGTHS, PVC FILLERS AS REQUIRED, POLYESTER BINDERS AS REQUIRED, SHIELDED PAIR 100% COVERAGE OF ALUMINUM POLYESTER FOIL WITH TC DRAIN WIRE, WATERBLOCKED CONSTRUCTION, OVERALL 105 DEGREE CELSIUS SUNLIGHT AND MOISTURE RESISTANT PVC JACKET

Combination Cables, Shielded & Unshielded

AWG	#/COND.	STR/SOL	NOM. INSULATION THICKNESS	NOM. JACKET THICKNESS	NOM. O.D	NOM CAP. PF/FT	UL LISTING	AVG. LBS. PER MFT	SPEC #
22	3 (2 SHIELDED) (1 UNSHIELDED)	SOL	0.010	0.025	0.148	35.57	CMR/CL3R	16	SW2023
22	3 (2 SHIELDED) (1 UNSHIELDED)	STR	0.010	0.025	0.156	35.34	CMR/CL3R	17	SW2024
22	4 (2 SHIELDED) (2 UNSHIELDED)	SOL	0.010	0.025	0.16	35.57	CMR/CL3R	20	SW2016
22	4 (2 SHIELDED) (2 UNSHIELDED)	STR	0.010	0.025	0.169	35.34	CMR/CL3R	21	SW2014
22	6 (2 SHIELDED) (4 UNSHIELDED)	SOL	0.010	0.025	0.178	35.57	CMR/CL3R	26	SW2027
22	6 (2 SHIELDED) (4 UNSHIELDED)	SOL	0.010	0.025	0.18	35.57	CMR/CL3R	26	SW2979
20	4 (2 SHIELDED) (2 UNSHIELDED)	STR	0.010	0.025	0.183	39.01	CMR/CL3R	27	SW3005

Other constructions available - Please consult the factory.

ARTICLE 725

CCTV COAXIAL CABLE

**APPLICATIONS:**

AUDIO/VIDEO, RADIO FREQUENCY, CCTV TRANSMISSIONS, SUNLIGHT RESISTANT

CODE RESTRICTIONS:

FOR USE WITH GENERAL PURPOSE EXCEPT IN RISERS AND PLENUMS

FEATURES:

AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, ALSO AVAILABLE IN BULK. SEQUENTIAL FOOTAGE MARKINGS

CONSTRUCTION:

FOAMED DIELECTRIC CORE OVER SOLID COPPER CENTER CONDUCTOR, BARE COPPER BRAID SHIELD, JACKET COLORS: BLACK, WHITE

CCTV Coaxial Cable

STYLE	SHIELD	AWG	NOM. VP	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG59/U	95% BC	20 BC	78	.240	75 OHMS	CM/CL2	35	C30022
RG6/U	95% BC	18 BC	78	.270	75 OHMS	CM/CL2	44	C40009
RG11/U	95% BC	14 BC	78	.400	75 OHMS	CL3	87	C60003
RG59/U + 18/2 Siamese	95% BC	20 BC + 18 BC	78	.360 X .285	75 OHMS	CM/CL3	60	H90369
RG6/U + 18/2 Siamese	95% BC	18 BC + 18 BC	78	.275 X .445	75 OHMS	CM/CL2	64	H90767
RG6/U + 16/2 Siamese	95% bc	18 BC + 18 BC	78	.279 X .475	75 OHMS	CM.CL2	72	H90454

CCTV COAXIAL CABLE, PLENUM RATED

**APPLICATIONS:**

AUDIO/VIDEO, RADIO FREQUENCY, CCTV TRANSMISSIONS

CODE RESTRICTIONS:

FOR USE WITH GENERAL PURPOSE

FEATURES:

AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS

CONSTRUCTION:

FOAMED DIELECTRIC CORE OVER SOLID BARE COPPER CENTER CONDUCTOR, BARE COPPER BRAID SHIELD, JACKET COLOR: OFF-WHITE

CCTV Coaxial Cable, Plenum Rated

STYLE	SHIELD	AWG	NOM. VP	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG59/U	95% BC	20 BC	82	.193	75 OHMS	CMP/CL2P	28	D30009
RG6/U	95% BC	18 BC	82	.221	75 OHMS	CMP/CL2P	37	D40012
RG11/U	95% BC	14 BC	82	.335	75 OHMS	CL3P	91	D60001
RG59/U + 18/2 Siamese	95% BC	20 BC + 18 BC	82	.421 X .245	75 OHMS	CMP/CL3P	42	H90224
RG6/U + 18/2 Siamese	95% BC	18 BC + 18 BC	82	.232 X .420	75 OHMS	CMP/CL2P	55	H90794
RG6/U + 16/2 Siamese	95% BC	18 BC + 16 BC	82	.275 X .490	75 OHMS	CMP/CL2P	62	H90061

ARTICLE 725

CCTV COAXIAL CABLE Underground / Outdoor

**APPLICATIONS:**

AUDIO/VIDEO WIRING FOR OUTDOOR OR UNDERGROUND USE. SUNLIGHT RESISTANT.

CODE RESTRICTIONS:

INTENDED FOR OUTDOOR, UNDERGROUND ARIAL OR CONDUIT USE

FEATURES:

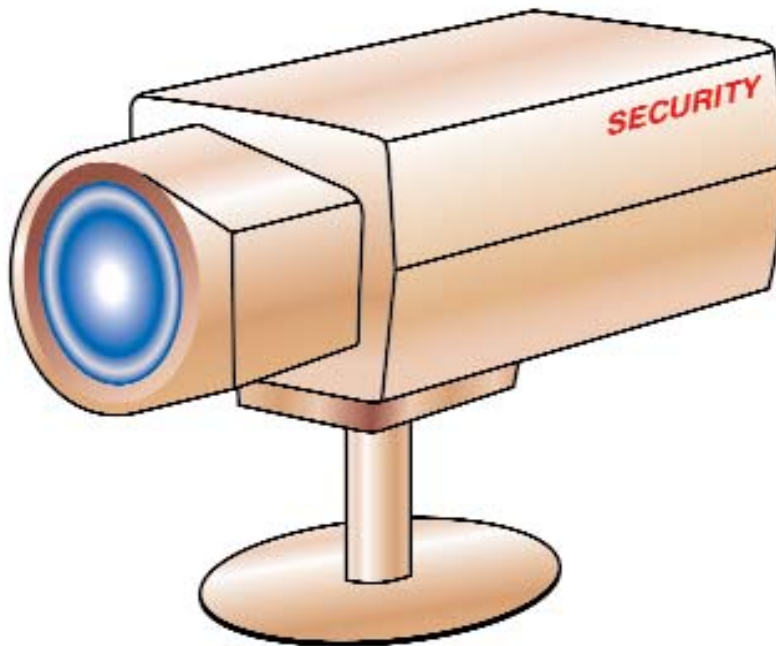
AVAILABLE ON BULK OR 1000 FT. SPOOLS

CONSTRUCTION:

FOAMED DIELECTRIC CORE OVER SOLID COPPER CENTER CONDUCTOR, BARE COPPER BRAID SHIELD, LOW DENSITY, HIGH MOLECULAR WEIGHT POLYOLEFIN JACKET. JACKET COLOR: BLACK

Coaxial Cable, Underground / Outdoor

STYLE	SHIELD	CORE AWG	NOM. VP	NOM. IMP	AVG. LBS. PER MFT	SPEC #
RG59/U	95% BC	20 BC	82%	75 OHMS	36	SU3008
RG59/U + 18/2	95% BC	20 BC	82%	75 OHMS	54	H91319
RG6/U	95% BC	18 BC	82%	75 OHMS	44	SU4008
RG6/U + 18/2	95% BC	18	82%	75 OHMS	60	H91578
RG6/U + 16/2	95% BC	18 BC	82%	75 OHMS	70	H91569



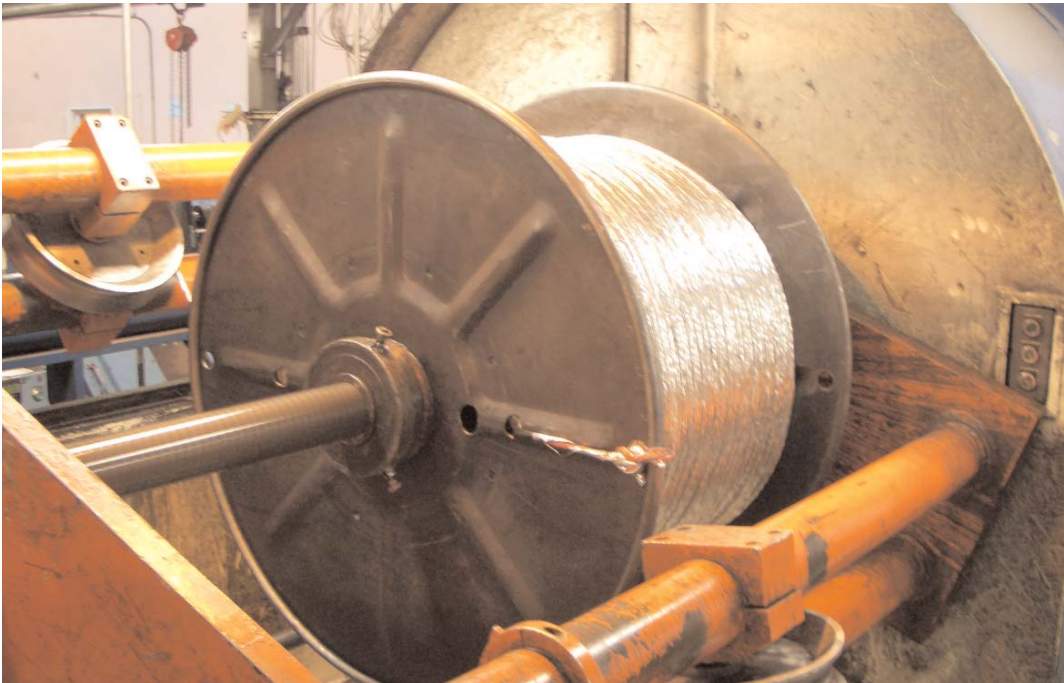
UTP FOR CCTV APPLICATIONS



- APPLICATIONS:**
- FOR CLOSED CIRCUIT TELEVISION (CCTV) - VIDEO, POWER AND CONTROL SIGNALS WITHIN A SINGLE UNSHIELDED TWISTED PAIR (UTP) CABLE
- FEATURES:**
- ENHANCED CATEGORY 5 TESTED TO 350 MHz, AVAILABLE FOR RISER AND PLENUM APPLICATIONS, SEQUENTIAL FOOTAGE MARKERS ON CABLE
- PRODUCT BENEFITS:**
- UNSHIELDED TWISTED PAIR (UTP) STRUCTURED PREMISE CABLING PERMITS MANY COMMUNICATION PRTOTCOLS TO RESIDE IN THE SAME WIRE BUNDLE, INCLUDING VOICE, DATA, AND CCTV VIDEO AND CONTROL WITH 2 CONDUCTORS FOR SUPPLY REQUIREMENTS. BENEFITS OF STRUCTURED UTP CABLING INCLUDE: BETTER EMI INTERFERENCE REJECTION THAN COAXIAL CABLE, UTP IS LESS EXPENSIVE THAN DEDICATED COAX OR FIBER, PAN/TILT/ZOOM SIGNALS, LONGER DISTANCE RUNS, PHYSICALLY SMALLER THAN COAX ALTERNATIVES, AND UTP IS EXTREMELY EASY TO INSTALL AND TERMINATE

UTP for CCTV Applications

POWER	UTP	DIAMETER	UL LISTING	SPEC
16/2 STR	CAT 5e 24/2 PAIR	.184" x .375"	CMR/CL2R	H91067
16/2 STR	CAT 5e 24/2 PAIR	.178" x .360"	CMP/CL2P	H91068



ARTICLE 725

MULTIMEDIA CABLE UL Rated


APPLICATIONS:

RESIDENTIAL VOICE, VIDEO, AND DATA CABLING

CODE RESTRICTIONS:

FOR USE WITH POWER-LIMITED CIRCUITS EXCEPT THOSE IN RISERS OR PLENUMS

FEATURES:

AVAILABLE ON 500 FT OR 1000 FT SPOOLS, SEQUENTIAL FOOTAGE MARKINGS

CONSTRUCTION:

SOLID OR FOAMED DIELECTRIC CORE OVER SOLID COPPER CENTER CONDUCTOR, FLEXIBLE PVC JACKET

Multimedia Cable UL Rated

CONSTRUCTION			NOM. O.D.	COLOR	AVG. LBS. PER MFT	SPEC #
CAT CABLE		COAX				
2 CAT 5e	+	2 RG6 QUAD	0.650	BLUE	115	H90122
1 CAT 5e	+	1 RG6 QUAD	0.628	PURPLE	58	H91063
1 CAT 5e	+	2 RG6 QUAD	0.595	YELLOW	88	H91064
2 CAT 5e	+	1 RG6 QUAD	0.602	GREEN	78	H90357
1 CAT 5e	+	16/4	0.503	WHITE	75	H91065
1 CAT 5e	+	RG59 (CCTV) + 1PR 18	0.488	YELLOW	80	H90948
1 PR 22 SHIELDED	+	1 PR 18	0.381	TEAL	35	H91066



HOME THEATER CABLES



- APPLICATIONS:** HIGH-END AUDIO TRANSMISSION, THEATER, PRO AUDIO, STEREO SYSTEM
- CODE RESTRICTIONS:** FOR USE WITH POWER LIMITED CIRCUITS EXCEPT FOR THOSE IN RISERS AND PLENUMS
- FEATURES:** HIGHLY FLEXIBLE
- CONSTRUCTION:** HIGH-STRAND-COUNT OXYGEN FREE COPPER CONDUCTOR, COLOR CODE CHART 17

Home Theater Cables

AWG	# / COND.	STR / SOL	NOM O.D.	NOM. CAP. PF/FT	# STR OXYGEN FREE BC	JACKET COLOR	UL LISTINGS	AVG. WT. PER MFT	SPEC #
16	2	STR	0.230	30.55	65	WHITE	CM/CL3	34	A50312
16	4	STR	0.264	26.52	65	WHITE	CM/CL3	56	A50313
14	2	STR	0.268	31.52	41	BLUE	CM/CL3	49	A60146
14	4	STR	0.310	27.4	41	BLUE	CM/CL3	83	A60147

DIRECT BURIAL / OUTDOOR AUDIO



- APPLICATIONS:** HIGH-END AUDIO TRANSMISSION, STEREO, PROFESSIONAL SOUND, AND STUDIO REQUIREMENTS WHERE CRUSH RESISTANCE IS REQUIRED. DIRECT BURIAL SUNLIGHT RESISTANT
- CODE RESTRICTIONS:** INTENDED FOR OUTDOOR OR UNDERGROUND USE
- FEATURES:** AVAILABLE ON 500FT SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
- CONSTRUCTION:** HIGH-STRAND OXYGEN FREE COPPER CONDUCTORS. BLACK HIGH MOLECULAR WEIGHT POLYOLEFIN JACKET. COLOR CODE CHART 17

Direct Burial / Outdoor Audio

AWG	# CONDUCTORS (STRAND COUNT)	AVG. LBS. PER MFT	SPEC #
16	2 (65 STR BC) OXYGEN FREE	26	SU5011
16	4 (65 STR BC) OXYGEN FREE	46	SU5012
14	2 (41 STR BC) OXYGEN FREE	40	SU6026
14	4 (41 STR BC) OXYGEN FREE	71	SU6027

ARTICLE 725

MINI-RGB COMPONENT VIDEO CABLES

APPLICATIONS:

COMPONENT VIDEO CABLES ARE A KEY ELEMENT OF ANY HOME THEATER SYSTEM. THESE 75 OHM CABLES CARRY VIDEO SIGNALS FROM A SOURCE (ie. DVD PLAYER) TO A LOAD (ie. TV MONITOR)

FEATURES:

100% FOIL SHIELD, 95% TINNED COPPER BRAID SHIELD, GAS INJECTED DIELECTRIC, 81% VP, SUPER FLEXIBLE EASY STRIP OUTER JACKET, RIPCORDER FOR JACKET REMOVAL, LOW LOSS SOLID BARE COPPER CENTER CONDUCTOR, SWEEP TESTED TO 2 GHz



Mini-RGB Component Video Cables

STYLE	COAXIAL JACKET COLORS	SHIELD	NOM IMP.	NOM O.D.	UL LISTING	SPEC #
3 X MINI-COAX	RED, GREEN & BLUE	95% TC & 100% FOIL	75 OHMS	.370	CM/CL2	H91089
5 X MINI-COAX	RED, GREEN, BLUE, YELLOW & WHITE	95% TC & 100% FOIL	75 OHMS	.429	CM/CL2	H91088
6 X MINI-COAX	RED, GREEN, BLUE, YELLOW, WHITE & GRAY	95% TC & 100% FOIL	75 OHMS	.466	CM/CL2	H91082

MINI-RGB COMPONENT VIDEO CABLES

Plenum Rated

APPLICATIONS:

COMPONENT VIDEO CABLES ARE A KEY ELEMENT OF ANY HOME THEATER SYSTEM. THESE 75 OHM CABLES CARRY VIDEO SIGNALS FROM A SOURCE (ie. DVD PLAYER) TO A LOAD (ie. TV MONITOR)

FEATURES:

100% FOIL SHIELD, 95% TINNED COPPER BRAID SHIELD, GAS INJECTED DIELECTRIC, 81% VP, SUPER FLEXIBLE EASY STRIP OUTER JACKET, RIPCORDER FOR JACKET REMOVAL, LOW LOSS SOLID BARE COPPER CENTER CONDUCTOR, SWEEP TESTED TO 2 GHz



Mini-RGB Component Video Cables, Plenum

STYLE	COAXIAL JACKET COLORS	SHIELD	NOM IMP.	NOM O.D.	UL LISTING	SPEC #
3 X MINI-COAX	RED, GREEN & BLUE	95% TC & 100% FOIL	75 OHMS	.348	CMP/CL2P	H91080
5 X MINI-COAX	RED, GREEN, BLUE, YELLOW & WHITE	95% TC & 100% FOIL	75 OHMS	.411	CMP/CL2P	H91079
6 X MINI-COAX	RED, GREEN, BLUE, YELLOW, WHITE & GRAY	95% TC & 100% FOIL	75 OHMS	.448	CMP/CL2P	H91078

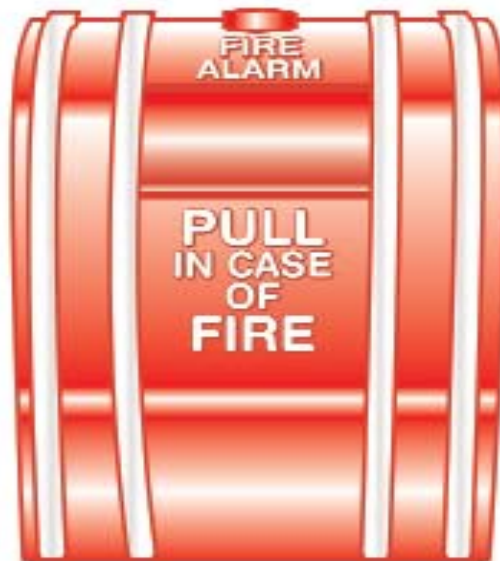
ARTICLE 760

ARTICLE 760 NEC

Wiring and equipment for fire alarm systems, power circuits for fire alarms

Power Limited Circuits: Type FPL, FPLR, FPLP

Article 760 provides the requirements for the installation of wiring and equipment for fire alarm systems, including control and power circuits. Fire alarm systems include fire detection, alarm notification and voice communications. NFPA 72-National Fire Alarm Code provides other fire alarm system requirements.



ARTICLE 760

FIRE ALARM MID CAP Multi-Conductor, Unshielded



APPLICATIONS:	MID-CAPACITANCE ADDRESSABLE FIRE-PROTECTIVE SIGNALING CIRCUITS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT THOSE IN RISERS AND PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, POLYOLEFIN INSULATION, PVC JACKET, RIPCORD JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm Mid Cap Unshielded

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL.	.181	16.7	FPL/CM	19	SM4007
16	2	SOL.	.202	18.5	FPL/CM	26	SM5014
14	2	SOL.	.228	20.7	FPL/CL3	37	SM6005

* Available in various jacket colors. Consult factory for a list of colors.

FIRE ALARM MID CAP SHIELDED Multi-Conductor, Overall Shield



APPLICATIONS:	MID-CAPACITANCE ADDRESSABLE FIRE-PROTECTIVE SIGNALING CIRCUITS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT THOSE IN RISERS AND PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, POLYOLEFIN INSULATION, ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, PVC JACKET, RIPCORD JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm Mid Cap Shielded (Overall Shield)

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL.	.181	25.4	FPL/CM	20	J40026
16	2	SOL.	.202	29.0	FPL/CM	27	SM5015
14	2	SOL.	.228	33.1	FPL/CL3	38	SM6007

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

FIRE ALARM, RISER RATED Multi-Conductor, Unshielded



APPLICATIONS:	FIRE-PROTECTIVE SIGNALING CIRCUITS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, PVC INSULATION, PVC JACKET, RIPCORD JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm, Unshielded, Riser Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	4	SOL.	.140	22.3	FPLR/CMR	14	F20004
22	6	SOL.	.156	22.3	FPLR/CMR	20	F20009
22	8	SOL.	.178	22.3	FPLR/CMR	26	F20002
22	10	SOL.	.190	22.3	FPLR/CMR	32	F20012
22	12	SOL.	.204	22.3	FPLR/CMR	37	F20014
18	2	SOL.	.157	30.6	FPLR/CMR	17	F40021
18	4	SOL.	.181	26.5	FPLR/CMR	30	F40003
18	6	SOL.	.204	26.5	FPLR/CMR	42	F40025
18	8	SOL.	.235	26.5	FPLR/CMR	55	F40026
18	10	SOL.	.252	26.5	FPLR/CMR	67	F40027
16	2	SOL.	.182	32.4	FPLR/CMR	25	F50004
16	4	SOL.	.211	28.2	FPLR/CMR	44	F50011
14	2	SOL.	.216	33.2	FPLR/CL3R	37	F60001
14	4	SOL.	.253	28.9	FPLR/CL3R	66	F60112
12	2	SOL.	.258	34.5	FPLR/CL3R	55	F70004

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

FIRE ALARM, RISER RATED Multi-Conductor, Overall Shield



APPLICATIONS:	FIRE-PROTECTIVE SIGNALING CIRCUITS, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD, PVC INSULATION, PVC JACKET, RIPCORD, JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm, Overall Shielded, Riser Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	4	SOL.	.140	40.5	FPLR/CMR	16	F20017
18	2	SOL.	.157	49.3	FPLR/CMR	19	F40131
18	4	SOL.	.181	49.3	FPLR/CMR	31	F40030
18	6	SOL.	.204	49.3	FPLR/CMR	44	F40032
18	8	SOL.	.235	49.3	FPLR/CMR	56	F40033
16	2	SOL.	.182	52.8	FPLR/CMR	26	F50010
16	4	SOL.	.211	52.8	FPLR/CMR	45	F50030
14	2	SOL.	.216	54.3	FPLR/CL3R	38	F60030
14	4	SOL.	.253	54.3	FPLR/CL3R	68	F60111
12	2	SOL.	.258	56.6	FPLR/CL3R	56	F70015

* Available in various jacket colors. Consult factory for a list of colors.



ARTICLE 760

FIRE ALARM, PLENUM RATED Multi-Conductor, Unshielded



APPLICATIONS:	FIRE-PROTECTIVE SIGNALING CIRCUITS
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, LOW SMOKE INSULATION AND JACKET, RIPCORD JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm, Unshielded, Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
22	4	SOL.	.128	22.3	FPLP/CMP	14	G20342
22	6	SOL.	.144	22.3	FPLP/CMP	20	G20006
22	8	SOL.	.166	22.3	FPLP/CMP	26	G20008
22	10	SOL.	.178	22.3	FPLP/CMP	31	G20010
22	12	SOL.	.192	22.3	FPLP/CMP	37	G20012
18	2	SOL.	.145	30.6	FPLP/CMP	16	G40005
18	4	SOL.	.169	26.5	FPLP/CMP	29	G40040
18	6	SOL.	.192	26.5	FPLP/CMP	41	G40134
18	8	SOL.	.223	26.5	FPLP/CMP	54	G40043
18	10	SOL.	.240	26.5	FPLP/CMP	67	G40045
16	2	SOL.	.170	32.4	FPLP/CMP	24	G50032
16	4	SOL.	.199	28.2	FPLP/CMP	43	G50044
14	2	SOL.	.204	33.2	FPLP/CL3P	35	G60004
14	4	SOL.	.241	28.9	FPLP/CL3P	66	G60041
12	2	SOL.	.246	34.5	FPLP/CL3P	53	G70009

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

FIRE ALARM, SHIELDED, PLENUM RATED Multi-Conductor, Overall Shielded



APPLICATIONS:	FIRE-PROTECTIVE SIGNALING CIRCUITS
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, LOW SMOKE INSULATION AND JACKET, RIPCORD JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm, Overall Shielded Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	LISTINGS	AVG. LBS. PER MFT	SPEC #
22	4	SOL.	.128	40.5	FPLP/CMP	15	G20338
18	2	SOL.	.145	49.3	FPLP/CMP	18	G40006
18	4	SOL.	.169	49.3	FPLP/CMP	30	G40296
18	6	SOL.	.192	49.3	FPLP/CMP	43	G40050
18	8	SOL.	.223	49.3	FPLP/CMP	56	G40052
16	2	SOL.	.170	52.8	FPLP/CMP	25	G50013
16	4	SOL.	.199	52.8	FPLP/CMP	44	G50054
14	2	SOL.	.204	54.3	FPLP/CL3P	37	G60025
14	4	SOL.	.241	54.3	FPLP/CL3P	67	G60050
12	2	SOL.	.246	56.6	FPLP/CL3P	55	G70019

* Available in various jacket colors. Consult factory for a list of colors.



ARTICLE 760

FIRE ALARM, MID-CAP, PLENUM RATED Multi-Conductor, Unshielded



APPLICATIONS:	ADDRESSABLE FIRE-PROTECTIVE SIGNALING CIRCUITS
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, PVDF INSULATION, LOW SMOKE JACKET RIPCORD, JACKET COLOR: RED, CONDUCTOR COLOR CODE CHART 17

Fire Alarm, Mid-Cap, Unshielded, Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL.	.157	21.2	FPLP/CMP	17	J40028
16	2	SOL.	.178	23.5	FPLP/CMP	25	J50009
14	2	SOL.	.216	23.6	FPLP/CL3P	37	J60004

* Available in various jacket colors. Consult factory for a list of colors.

FIRE ALARM MID-CAP SHIELDED, PLENUM RATED Multi-Conductor, Overall Shield



APPLICATIONS:	ADDRESSABLE FIRE-PROTECTIVE SIGNALING CIRCUITS
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, PVDF INSULATION, ALUMINUM/POLYESTER FOIL SHIELD WITH TINNED COPPER DRAIN WIRE, LOW SMOKE JACKET, RIPCORD, JACKET COLOR: RED, COLOR CODE CHART 17

Fire Alarm, Mid-Cap, Overall Shielded, Plenum Rated

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL.	.163	32.9	FPLP/CMP	19	J40027
16	2	SOL.	.184	37.6	FPLP/CMP	26	J50010
14	2	SOL.	.222	37.8	FPLP/CL3P	38	J60005

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

UNSHIELDED NYC LOCAL LAW 5 Multi-Pair, Unshielded, 150 °C



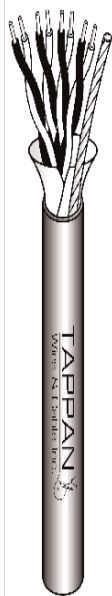
APPLICATIONS:	FIRE PROTECTIVE SIGNALING CIRCUITS INSTALLED IN THE CITY OF NEW YORK
CODE RESTRICTIONS:	MEETS THE NEW YORK CITY LOCAL LAW 5 AND NEW YORK STATE TOXICITY REQUIREMENTS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, FLUOROCOPOLYMER INSULATION FLUOROCOPOLYMER JACKET, JACKET COLOR: RED, COLOR CODE CHART 507

Unshielded LL5 150°C

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1	SOL.	.191	19.0	FPLP/NYC LL5	23	EK4983
18	2	SOL.	.230	16.1	FPLP/NYC LL5	39	EK4980
16	1	SOL.	.212	21.2	FPLP/NYC LL5	36	EK5986
16	2	SOL.	.260	18.2	FPLP/NYC LL5	53	EK5981
14	1	SOL.	.238	23.6	FPLP/NYC LL5	42	EK6981
14	2	SOL.	.290	20.4	FPLP/NYC LL5	76	EK6972
12	1	SOL.	.272	26.3	FPLP/NYC LL5	60	EK7981

* Available in various jacket colors. Consult factory for a list of colors.

SHIELDED NYC LOCAL LAW 5 Multi-Pair, Overall Shield, 150 °C



APPLICATIONS:	FIRE PROTECTIVE SIGNALING CIRCUITS INSTALLED IN THE CITY OF NEW YORK
CODE RESTRICTIONS:	MEETS THE NEW YORK CITY LOCAL LAW 5 AND NEW YORK STATE TOXICITY REQUIREMENTS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER SHIELD FLUOROCOPOLYMER INSULATION, FLUOROCOPOLYMER JACKET JACKET COLOR: RED, COLOR CODE CHART 507

Shielded LL5 (Overall Shield) 150°C

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1	SOL.	.191	29.0	FPLP/NYC LL5	21	EK4987
18	2	SOL.	.230	29.0	FPLP/NYC LL5	40	EK4982
16	1	SOL.	.212	33.2	FPLP/NYC LL5	38	EK5983
16	2	SOL.	.260	33.1	FPLP/NYC LL5	55	EK5975
14	1	SOL.	.238	37.8	FPLP/NYC LL5	44	EK6974
14	2	SOL.	.290	37.8	FPLP/NYC LL5	78	EK6975
12	1	SOL.	.272	43.0	FPLP/NYC LL5	62	EK7980

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

UNSHIELDED NYC LOCAL LAW 5 Multi-Pair, Unshielded, 200 °C



APPLICATIONS:	FIRE PROTECTIVE SIGNALING CIRCUITS INSTALLED IN THE CITY OF NEW YORK
CODE RESTRICTIONS:	MEETS THE NEW YORK CITY LOCAL LAW 5 AND NEW YORK STATE TOXICITY REQUIREMENTS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, FLUOROPOLYMER INSULATION FLUOROPOLYMER JACKET, JACKET COLOR: RED, COLOR CODE CHART 507

Multi-Pair, Unshielded, 200 °C

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1	SOL	.191	15.77	FPLP/NYC LL5	28	ET4998
18	2	SOL	.230	13.36	FPLP/NYC LL5	46	ET4984
16	1	SOL	.212	17.53	FPLP/NYC LL5	36	ET5979
16	2	SOL	.260	15.06	FPLP/NYC LL5	62	ET5977
14	1	SOL	.238	19.52	FPLP/NYC LL5	49	ET6986
14	2	SOL	.318	16.93	FPLP/NYC LL5	88	ET6985
12	1	SOL	.272	21.76	FPLP/NYC LL5	68	ET7982

* Available in various jacket colors. Consult factory for a list of colors.

SHIELDED NYC LOCAL LAW 5 Multi-Pair, Overall Shield, 200 °C



APPLICATIONS:	FIRE PROTECTIVE SIGNALING CIRCUITS INSTALLED IN THE CITY OF NEW YORK
CODE RESTRICTIONS:	MEETS THE NEW YORK CITY LOCAL LAW 5 AND NEW YORK STATE TOXICITY REQUIREMENTS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER SHIELD, FLUOROPOLYMER INSULATION, FLUOROPOLYMER JACKET, JACKET COLOR: RED CONDUCTOR COLOR CODE CHART 507

Multi-Pair, Overall Shield, 200 °C

AWG	#/PAIRS	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	1	SOL	.203	23.99	FPLP/NYC LL5	29	ET4986
18	2	SOL	.236	23.99	FPLP/NYC LL5	47	ET4985
16	1	SOL	.218	27.42	FPLP/NYC LL5	38	ET5978
16	2	SOL	.266	27.42	FPLP/NYC LL5	63	ET5976
14	1	SOL	.244	31.30	FPLP/NYC LL5	51	ET6983
14	2	SOL	.324	31.30	FPLP/NYC LL5	90	ET6984
12	1	SOL	.278	35.58	FPLP/NYC LL5	70	ET7985

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

UNSHIELDED NON-POWER LIMITED PLENUM RATED Fire Protective Signaling Plenum Cable



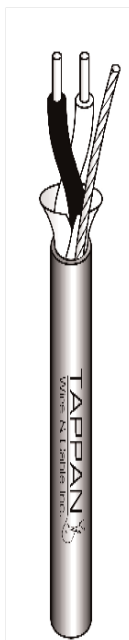
APPLICATIONS:	INDOOR (NON-CONDUIT) ENVIRONMENTAL AIR, CONTROL CIRCUITS, INITIATING CIRCUITS, NOTIFICATION CIRCUITS
CODE RESTRICTIONS:	UL LISTED NEC TYPE NPLFP, CONSTRUCTED IN ACCORDANCE WITH NEC ARTICLE 760, COMPLIES WITH UL 910 MODIFIED ASTM STEINER TUNNEL TEST, INTENDED FOR NPLFP SYSTEMS OPERATING AT 150 VOLTS OR LESS AS DEFINED IN NEC ARTICLE 760
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER, FLUOROPOLYMER INSULATION, TWISTED PAIR OR CABLED CONSTRUCTION, POLYESTER BINDERS AS REQUIRED, SHIELD 100% COVERAGE OF ALUMINUM/POLYESTER FOIL WITH STRANDED TC DRAIN, OVERALL FLUOROPOLYMER JACKET

Non-Power Limited, Unshielded, Plenum

AWG	#/COND	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL	.181	16.78	NPLFP	20	SP4002
14	2	SOL	.228	20.67	NPLFP	38	SP6001

* Available in various jacket colors. Consult factory for a list of colors.

SHIELDED NON-POWER LIMITED PLENUM RATED Fire Protective Signaling Plenum Cable



APPLICATIONS:	INDOOR (NON-CONDUIT) ENVIRONMENTAL AIR, CONTROL CIRCUITS, INITIATING CIRCUITS, NOTIFICATION CIRCUITS
CODE RESTRICTIONS:	UL LISTED NEC TYPE NPLFP, CONSTRUCTED IN ACCORDANCE WITH NEC ARTICLE 760, COMPLIES WITH UL 910 MODIFIED ASTM STEINER TUNNEL TEST, INTENDED FOR NPLFP SYSTEMS OPERATING AT 150 VOLTS OR LESS AS DEFINED IN NEC ARTICLE 760
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER, FLUOROPOLYMER INSULATION, TWISTED PAIR OR CABLED CONSTRUCTION, POLYESTER BINDERS AS REQUIRED, SHIELD 100% COVERAGE OF ALUMINUM/POLYESTER FOIL WITH STRANDED TC DRAIN, OVERALL FLUOROPOLYMER JACKET

Non-Power Limited, Shielded, Plenum

AWG	#/COND	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL	.181	24.59	NPLFP	23	SP4001
18	3	SOL	.194	24.59	NPLFP	31	SP4003
18	4	SOL	.214	24.59	NPLFP	38	SP4004
16	2	SOL	.202	28.09	NPLFP	30	SP5005
16	3	SOL	.217	28.09	NPLFP	41	SP5006
16	4	SOL	.240	28.09	NPLFP	53	SP5007
14	2	SOL	.228	32.12	NPLFP	41	SP6001

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 760

UNSHIELDED NON-POWER LIMITED Fire Protective Signaling Cable



APPLICATIONS:	INDOOR (NON-CONDUIT) ENVIRONMENTAL AIR, CONTROL CIRCUITS, INITIATING CIRCUITS, NOTIFICATION CIRCUITS
CODE RESTRICTIONS:	UL LISTED NEC TYPE NPLF, CONSTRUCTED IN ACCORDANCE WITH NEC ARTICLE 760, COMPLIES WITH UL 1581 VERTICAL TRAY FLAME TEST, TEMPERATURE RANGE -20 DEGREES CELSIUS TO 75 DEGREES CELSIUS DRY LOCATIONS, INTENDED FOR NPLF SYSTEMS OPERATING AT 150 VOLTS OR LESS AS DEFINED IN NEC ARTICLE 760
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER, PVC/NYLON INSULATION, TWISTED PAIR OR CABLED CONSTRUCTION, POLYESTER BINDERS AS REQUIRED, OVERALL 75 DEGREE CELSIUS PVC JACKET, COLOR CODE: CHART 11

Non-Power Limited, Unshielded

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL	.239	29.07	NPLF	30	SN4014
18	4	SOL	.273	23.97	NPLF	47	SN4015
16	2	SOL	.260	32.2	NPLF	39	SN5010
16	4	SOL	.299	27.06	NPLF	63	SN5011
14	2	SOL	.286	35.76	NPLF	51	SN6002

* Available in various jacket colors. Consult factory for a list of colors.

SHIELDED NON-POWER LIMITED Fire Protective Signaling Cable



APPLICATIONS:	INDOOR (NON-CONDUIT) ENVIRONMENTAL AIR, CONTROL CIRCUITS, INITIATING CIRCUITS, NOTIFICATION CIRCUITS
CODE RESTRICTIONS:	UL LISTED NEC TYPE NPLF, CONSTRUCTED IN ACCORDANCE WITH NEC ARTICLE 760, COMPLIES WITH UL 1581 VERTICAL TRAY FLAME TEST, TEMPERATURE RANGE -20 DEGREES CELSIUS TO 75 DEGREES CELSIUS DRY LOCATIONS, INTENDED FOR NPLF SYSTEMS OPERATING AT 150 VOLTS OR LESS AS DEFINED IN NEC ARTICLE 760
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	BARE COPPER, PVC INSULATION WITH NYLON, TWISTED PAIR OR CABLED CONSTRUCTION, POLYESTER BINDERS AS REQUIRED, SHIELD 100% COVERAGE ALUMINUM/ POLYESTER FOIL WITH STRANDED TC DRAIN WIRE, OVERALL 75 DEGREE CELSIUS PVC JACKET, COLOR CODE: CHART 11

Non-Power Limited, Shielded

AWG	#/COND.	STR/SOL	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
18	2	SOL	.239	42.3	NPLF	33	SN4009
18	4	SOL	.273	42.3	NPLF	51	SN4010
16	2	SOL	.260	48.31	NPLF	42	SN5008
16	4	SOL	.299	48.31	NPLF	66	SN5009
14	2	SOL	.286	55.25	NPLF	54	SN6016
14	4	SOL	.341	55.25	NPLF	92	SN6017
12	2	SOL	.330	63.1	NPLF	76	SN7013

* Available in various jacket colors. Consult factory for a list of colors.

ARTICLE 800**ARTICLE 800 NEC****Communications Circuits, Voice & Data Cables**

Communications Cable: Type CM, CMR, CMP

This article covers telegraph (except radio), outside wiring for fire alarm, burglar alarm, similar central station systems and telephone systems not connected to a central station system but using similar types of equipment, methods of installation, and maintenance.



ARTICLE 800

VOICE & DATA, ENHANCED CATEGORY 5 350 MHz CM Rated



APPLICATIONS:	VOICE, 10/100/1000 Mb/S ETHERNET, 4/16 Mb/S TOKEN RING, FDDI TP-PMD, 155 Mb/S ATM AND GIGABIT ETHERNET, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT IN RISERS AND PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, RIPCORDER, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	UTP CABLES ARE UNSHIELDED TWISTED PAIR CABLES WITH A NOMINAL IMPEDANCE OF 100 OHMS JACKET COLORS: WHITE, YELLOW, ORANGE, RED GREEN, BLUE, GRAY, BEIGE. COLOR CODE CHART 642 MAXIMUM ATTENUATION AT 100MHz: 22db/100M MAXIMUM ATTENUATION AT 350MHz: 44.9 db/100M MINIMUM NEXT AT 100MHz: 38 db MINIMUM NEXT AT 350MHz: 30 db

Voice & Data, Plenum Rated, Enhanced Category 5 350 MHz

AWG	#/PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	4	100	UTP	.192	13.50	CM/CL2	20	R19776

VOICE & DATA, ENHANCED CATEGORY 5 350 MHz Plenum Rated



APPLICATIONS:	VOICE, 10/100/1000 Mb/S ETHERNET, 4/16 Mb/S TOKEN RING, FDDI TP-PMD, 155 Mb/S ATM AND GIGABIT ETHERNET
CODE RESTRICTIONS:	FOR USE WITH ALL POWER-LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, RIPCORDER, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	UTP CABLES ARE UNSHIELDED TWISTED PAIR CABLES WITH A NOMINAL IMPEDANCE OF 100 OHMS JACKET COLOR: BLUE OR NATURAL, COLOR CODE CHART 642 MAXIMUM ATTENUATION AT 100MHz: 22db/100M MAXIMUM ATTENUATION AT 350MHz: 44.9 db/100M MINIMUM NEXT AT 100MHz: 38 db MINIMUM NEXT AT 350MHz: 30 db

Voice & Data, Plenum Rated, Enhanced Category 5 350 MHz

AWG	#/PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	4	100	UTP	.180	12.90	FT6/CMP/CL2P	21	P19915

FREQUENCY (MHz)	MAX ATTENUATION (db/100m)	MIN NEXT (db)	MIN PSNEXT (db)	MIN PSACR (db/100m)	IMPEDANCE (OHMS)	MIN ELFEXT (db)	SRL (db)
0.772	1.8	70	67	65	NA	NA	NA
1	2	68	65	63	100 +/- 15	63.8	23
4	4.1	59	56	52	100 +/- 15	51.7	23
8	5.8	55	52	46	100 +/- 15	45.7	23
10	6.5	53	50	44	100 +/- 15	43.8	23
16	8.2	50	47	39	100 +/- 15	39.7	23
20	9.3	49	46	37	100 +/- 15	39.9	23
25	10.4	47	44	34	100 +/- 15	35.8	22
31.25	11.7	46	43	31	100 +/- 15	33.9	21
62.5	17	41	38	21	100 +/- 15	27.8	18
100	22	38	35	13	100 +/- 15	23.8	16
155	28.1	35	32	4	100 +/- 15	-	14
200	32.4	34	31	-	100 +/- 15	-	13
350	44.9	30	27	-	100 +/- 15	-	11

ARTICLE 800

CATEGORY 3, RISER RATED


CODE RESTRICTIONS:

FOR USE WITH ALL POWER-LIMITED CIRCUITS EXCEPT IN PLENUMS

FEATURES:

AVAILABLE IN 500 FT. OR 1000 FT. REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS

SPECIFICATIONS:

CHARACTERISTIC IMPEDANCE: 100 + OR - 15 (0.772 TO 16 MHz)

MAXIMUM RESISTANCE UNBALANCE: 5%

MAXIMUM CAPACITANCE UNBALANCE: 330 pF/100 METERS

MAXIMUM DELAY SKEW: 45 ns/100 METERS

JACKET COLOR: BLUE, COLOR CODE CHART: 626

ALSO AVAILABLE IN 50, 75, 100, 200 & 300 PAIRS - CALL FACTORY

Category 3, Riser Rated

AWG	#/PAIRS	NOM. O.D.	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	2	.142	CMR	10	I19998
24	3	.152	CMR	14	I19988
24	4	.165	CMR	17	I19990
24	6	.191	CMR	24	I19997
24	8	.210	CMR	31	I19996
24	12	.248	CMR	45	I19995
24	25	.338	CMR	88	I19986

CATEGORY 3, PLENUM RATED


CODE RESTRICTIONS:

FOR USE WITH ALL POWER-LIMITED CIRCUITS

FEATURES:

AVAILABLE IN 500 FT. OR 1000 FT. REELS OR BOXES, SEQUENTIAL FOOTAGE MARKINGS

SPECIFICATIONS:

CHARACTERISTIC IMPEDANCE: 100 + OR - 15 (0.772 TO 16 MHz)

MAXIMUM RESISTANCE UNBALANCE: 5%

MAXIMUM CAPACITANCE UNBALANCE: 330 pF/100 METERS

MAXIMUM DELAY SKEW: 45 ns/100 METERS

JACKET COLOR: WHITE, COLOR CODE CHART: 626

ALSO AVAILABLE IN 50, 75, 100, 200 & 300 PAIRS - CALL FACTORY

Category 3, Plenum Rated

AWG	#/PAIRS	NOM. O.D.	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	2	.156	CMP	12	I19991
24	3	.167	CMP	16	I19987
24	4	.182	CMP	20	I19989
24	6	.211	CMP	28	I19992
24	8	.232	CMP	36	I19993
24	12	.275	CMP	52	I19994
24	25	.377	CMP	102	I19985

TRANSMISSION SPECIFICATIONS

FREQ. (MHZ)	INS. LOSS (dB/100m)	NEXT LOSS (dB)	ACR (dB)	STRUCTURAL RETURN LOSS (dB)
1	2.6	41.3	38.7	12
4	5.6	32.3	26.7	12
8	8.5	27.8	19.3	12
10	9.7	26.3	16.6	12
16	13.1	23.2	10.1	10

ARTICLE 800

CLASSIC CONTROL/COMMUNICATION CABLES

APPLICATIONS:	WIRING OF COMMUNICATION, CONTROL AND INSTRUMENTATION
CODE RESTRICTIONS:	FOR USE WITH ALL POWER LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	COPPER CONDUCTORS, POLYETHELENE INSULATION, FLEXIBLE PVC JACKET

Classic Control/Communication Cables

AWG	CONSTRUCTION	STRAND	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	1 PR. F&B SHLD	STR	.232	14.3	CM/CL2	33	*L19827-9841
24	2 PR. F&B SHLD	STR	.340	14.64	CM/CL2	58	*L19954-9842
22	2 PR. EPS/CD	STR	.160	27.09	CM/CL3	18	A29925-8723
22	2 COND. OAS	STR	.172	19.01	CM/CL3	16	L20013-8761
22	3 PR. EPS	STR	.225	24.09	CM/CL3	38	SM2994-8777
22	6 PR. EPS	STR	.340	24.09	CM/CL3	74	SM2992-8778
18	2 COND. OAS	STR	.218	23.18	CM/CL3	28	L40008-8760
18	3 COND. OAS	STR	.242	23.18	CM/CL3	37	L40009-8770

CLASSIC PLENUM & HIGH TEMPERATURE COMMUNICATION CABLES

APPLICATIONS:	WIRING OF COMMUNICATION, CONTROL AND INSTRUMENTATION IN HIGH TEMPERATURE/HARSH ENVIRONMENTS
CODE RESTRICTIONS:	OK FOR USE WITH ALL POWER LIMITED CIRCUITS
FEATURES:	AVAILABLE IN 500' OR 1000' BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	COPPER CONDUCTORS, FLUOROPOLYMER INSULATION, FLUOROPOLYMER OR LOW SMOKE PVC JACKET

Classic Plenum & High Temperature Communication Cables

AWG	CONSTRUCTION	STRAND	NOM. O.D.	NOM. CAP. PF/FT	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
24	1 PR. F&B SHLD	STR	.176	12.5	CMP/CL2P	26	*T19984-89841
24	2 PR. F&B SHLD	STR	.271	12.5	CMP/CL2P	44	*T19983-89842
24	2 PR. OAS	STR	.216	12.5	CMP/CL2P	19	M19929
24	3 PR. OAS	STR	.231	12.5	CMP/CL2P	25	M19909
24	4 PR. OAS	STR	.253	12.5	CMP/CL2P	32	M19889
24	4.5 PR. OAS	STR	.274	12.5	CMP/CL2P	38	M19910
24	6 PR. OAS	STR	.295	12.5	CMP/CL2P	44	M19891
24	12.5 PR. OAS	STR	.398	12.5	CMP/CL2P	80	M19913
22	2 PR. EPS/CD	STR	.135	23.73	CMP/CL3P	17	T29982-88723
22	2 COND. OAS	STR	.112	29.96	CMP/CL3P	12	T20010-88761
22	3 PR. EPS	STR	.221	23.02	CMP/CL3P	34	T29978-88777
22	6 PR. EPS	STR	.280	23.02	CMP/CL3P	67	T29981-88778
18	2 COND. OAS	STR	.154	37.81	CMP/CL3P	24	T40030-88760
18	3 COND. OAS	STR	.156	35.88	CMP/CL3P	28	T40047-88770

* 100% ALUMINUM/POLYESTER FOIL + 90% TINNED COPPER BRAID SHIELD

ARTICLE 820**ARTICLE 820 NEC****Community Antenna Television and Video Surveillance Systems (Coaxial Cable)**

Coaxial Cable: Type CATV, CATVR, CATVP

Article 820 covers the installation of coaxial cable for the distribution of radio frequency (RF) signals associated with closed-circuit television, cable television and security television cameras. This article also covers interior coaxial cable for radio and television receiving equipment. Furthermore, it covers coaxial cable distribution of radio frequency signals in community antenna television (CATV) systems.



ARTICLE 820

COAXIAL CABLE, CATV, PREMIUM BROADBAND



APPLICATIONS:	AUDIO/VIDEO, RADIO FREQUENCY, CATV-MATV, COMPUTER/DATA PROCESSING TRANSMISSIONS. SUNLIGHT RESISTANT
CODE RESTRICTIONS:	FOR USE WITH GENERAL PURPOSE EXCEPT IN RISERS AND PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	FOAMED DIELECTRIC CORE OVER COPPER COVERED STEEL CENTER CONDUCTOR (CATV), SHIELDS ARE AVAILABLE IN VARIOUS ALUMINUM BRAID COVERAGES, JACKET COLORS: BLACK, WHITE

Coaxial Cable 75°C, CATV, Premium Broadband

STYLE	SHIELD	AWG	NOM. VP	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG6/U	Foil + 60% AL	18 CCS	82	.270	75 OHMS	CM/CL2	32	C40055
RG6/U	QUAD	18 CCS	82	.298	75 OHMS	CM/CL2/CATV	36	C40065
DUAL RG6/U	QUAD	18 CCS	82	.298 X .605	75 OHMS	CM/CL2/CATV	72	C40168
DUAL RG6/U	Foil + 40% AL	18 CCS	82	.275 X .565	75 OHMS	CM/CL2/CATV	63	C40076
RG11/U	Foil + 60% AL	14 CCS	82	.390	75 OHMS	CL3	87	C60008
RG11/U	QUAD	14 CCS	82	.405	75 OHMS	CL3	89	C6006



ARTICLE 820

COAXIAL CABLE, CATV, PREMIUM BROADBAND, PLENUM RATED



APPLICATIONS:	AUDIO/VIDEO, RADIO FREQUENCY, CATVP-MATV AND COMPUTER/DATA PROCESSING TRANSMISSIONS
CODE RESTRICTIONS:	FOR USE WITH PLENUM INSTALLATIONS
FEATURES:	AVAILABLE IN 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	FOAMED DIELECTRIC CORE OVER COPPER COVERED STEEL CENTER CONDUCTOR (CATV), SHIELDS ARE AVAILABLE IN VARIOUS ALUMINUM BRAID COVERAGES JACKET COLORS: BLACK, WHITE.

Coaxial Cable 75°C, CATV, Premium Broadband Plenum Rated

STYLE	SHIELD	AWG	NOM. VP	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG6/U	Foil + 60% AL	18 CCS	82	.230	75 OHMS	CMP/CL2P/CATVP	36	D40018
RG6/U	QUAD	18 CCS	82	.264	75 OHMS	CMP/CL2P/CATVP	41	D40019
RG11/U	Foil + 60% AL	14 CCS	82	.345	75 OHMS	CL3P/CATVP	84	D90011
RG11/U	QUAD	14 CCS	82	.386	75 OHMS	CL3P/CATVP	87	D60004



ARTICLE 820

CATV COAXIAL CABLE UNDERGROUND & OUTDOOR USE



APPLICATIONS:	AUDIO / VIDEO WIRING FOR OUTDOOR OR UNDERGROUND USE, SUNLIGHT RESISTANT
CODE RESTRICTIONS:	INTENDED FOR OUTDOOR, UNDERGROUND OR CONDUIT USE
FEATURES:	AVAILABLE ON 500 FT. OR 1000 FT. BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	FOAMED DIELECTRIC CORE OVER SOLID COPPER COVERED STEEL CONDUCTOR, LOW DENSITY HIGH MOLECULAR WEIGHT POLYOLEFIN JACKET, JACKET COLOR: BLACK

CATV Coaxial Cable, Underground and Outdoor Use

STYLE	SHIELD	AWG	NOM. VP	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG6/U	60% AL	18 CCS	82	.270	75 OHMS	NU	38	SU4020
RG6/U	QUAD	18 CCS	82	.298	75 OHMS	NU	42	SU4021

3 GHz DIGITAL AND HDTV COAXIAL CABLES



APPLICATIONS:	HIGH END HOME THEATER, HDTV, PRODUCTION, SATELLITE, ANALOG, DIGITAL BROADCAST
CODE RESTRICTIONS:	FOR USE WITH GENERAL PURPOSE EXCEPT IN RISERS AND PLENUMS
FEATURES:	AVAILABLE IN 500 FT. OR 1000FT BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS, TESTED TO 3GHz
CONSTRUCTION:	FOAMED DIELECTRIC CORE OVER SOLID BARE COPPER CENTER CONDUCTOR, 95% TC BRAID AND 100% FOIL SHIELD, EXTRA FLEXIBLE JACKET COLOR: WHITE, OTHER COLORS AVAILABLE CONSULT FACTORY

CATV Coaxial Cable

STYLE	SHIELD	AWG	NOM. O.D.	NOM. IMP	UL LISTINGS	AVG. LBS. PER MFT	SPEC #
RG6	95% TC 100% FOIL	18 BC	.270	75 OHMS	CATV/ CL2	44	C40181

Zero Halogen

Zero Halogen

Rating: CMR, FPLR, and Non-UL Construction

Tappan Zero-HAL Cables are made using low-smoke zero-halogen compounds that provide many advantages over standard cable constructions. Development of specialty polyolefins, using the latest technology, has produced a product that has excellent mechanical and electrical characteristics, superior flame resistance, low smoke production and reduced toxicity.

These cables are designed for use in environments where high performance, reliability, life safety and protection of equipment are required. The advantages of this product make it the best selection for use in a broad range of applications including:

Utility: power generation, co-generation and merchant power

Plants: mills, petrochemical, pulp and paper, pharmaceutical and Industrial waste water treatment

Data: computer rooms, switching centers and central office

Centers: Highly populated facilities: multi-story buildings, hotels, hospitals, sports centers, airports, tunnels and mass transit stations.



Zero Halogen

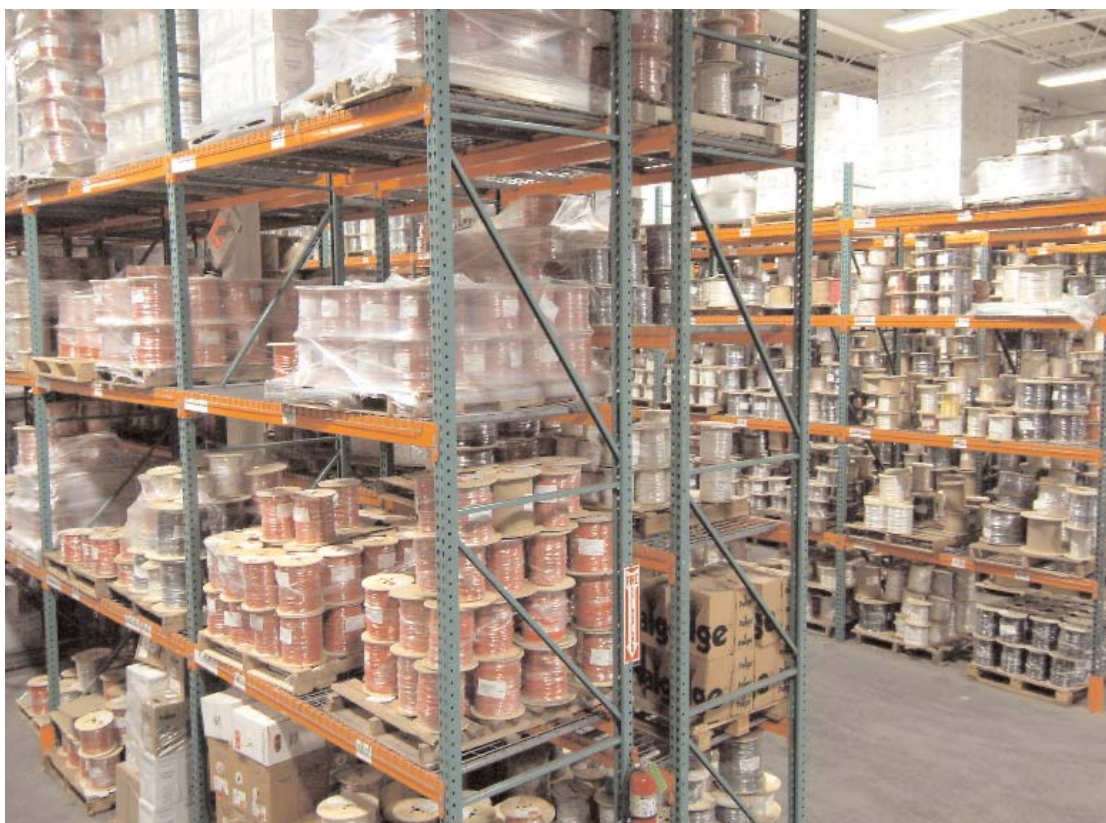
ZERO HALOGEN, MULTIPLE USE COAXIAL CABLE



APPLICATIONS:	UTILITY, INDUSTRIAL PLANTS, DATA CENTER, HIGHLY POPULATED FACILITIES, TUNNELS, TRANSIT AUTHORITIES
CODE RESTRICTIONS:	TRANSIT AUTHORITY APPROVED
FEATURES:	AVAILABLE IN 500FT OR 1000 FT BOXES OR REELS. SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTOR, POLYOLEFIN INSULATION, POLYOLEFIN JACKET JACKET COLOR: BLACK

Zero Halogen, Multiple Use Coaxial Cable

TYPE	SHIELD	COND.	NOM O.D.	NOM CAP PF/FT	NOM IMP.	UL LISTING	AVG LBS PER MFT	SPEC #
RG 59	QUAD	20 SOL/CCS	.265	17.3	75 OHMS	NU	30	SU3016
RG 6	DUAL	18 SOL/CCS	.270	16.2	75 OHMS	NU	39	SU4027
RG 6	QUAD	18 SOL/CCS	.298	16.2	75 OHMS	NU	42	SU4009
RG 11	DUAL	14 SOL/CCS	.400	16	75 OHMS	NU	76	SU6030
RG 11	QUAD	14 SOL/CCS	.418	16	75 OHMS	NU	74	SU6029
RG 59	95 % BC	20 SOL BC	.240	17.3	75 OHMS	NU	30	SU3022
RG 6	95 % BC	18 SOL BC	.270	16.2	75 OHMS	NU	39	SU4022
RG 11	95 % BC	14 SOL BC	.400	16	75 OHMS	NU	76	SU6022



Zero Halogen

ZERO HALOGEN

Multi-Conductor, Unshielded, Riser Rated



APPLICATIONS:	UTILITY, INDUSTRIAL PLANTS, DATA CENTER, HIGHLY POPULATED FACILITIES, TUNNELS, TRANSIT AUTHORITIES
CODE RESTRICTIONS:	FOR USE WITH ALL POWER LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500FT OR 1000 FT BOXES OR SPOOLS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER CONDUCTORS, ZERO HALOGEN INSULATION, ZERO HALOGEN JACKET, RIPCORDER, JACKET COLOR: CHROME GRAY, COLOR CODE CHART 17, ALSO LISTED IN ARTICLE 725

Multi-Conductor, Unshielded, Riser Rated

AWG	COND	STR	NOM O.D.	NOM CAP	UL LISTING	AVG LBS	SPEC #
22	2	7/0096	.138	24.87	CMR/CL3R	7	R21240
18	2	7/0152	.170	29.78	CMR/CL3R	14	R41238
16	2	19/0117	.190	33.97	CMR/CL3R	21	R50295
14	2	19/0147	.228	34.85	CMR/CL3R	32	R60194

ZERO HALOGEN

Multi-Conductor, Shielded, Riser Rated



APPLICATIONS:	UTILITY, INDUSTRIAL PLANTS, DATA CENTER, HIGHLY POPULATED FACILITIES, TUNNELS, TRANSIT AUTHORITIES
CODE RESTRICTIONS:	FOR USE WITH ALL POWER LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500FT OR 1000 FT BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	STRANDED BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD, ZERO HALOGEN INSULATION, ZERO HALOGEN JACKET, RIPCORDER, JACKET COLOR: CHROME GRAY, COLOR CODE CHART 17. ALSO LISTED IN ARTICLE 725

Multi-Conductor, Shielded, Riser Rated

AWG	COND	STR	NOM O.D.	NOM CAP	UL LISTING	AVG LBS	SPEC #
22	2	7/0096	.138	37.48	CMR/CL3R	9	R21243
18	2	7/0152	.170	47.07	CMR/CL3R	16	R41241
16	2	19/0117	.190	55.17	CMR/CL3R	23	R50298
14	2	19/0147	.228	56.84	CMR/CL3R	33	R60197

NOTES: Available up to 12 conductor constructions. Also available with PLTC rating. Transit Authority Approved.

Zero Halogen

ZERO HALOGEN FIRE ALARM

Multi-Conductor, Unshielded, Riser Rated

APPLICATIONS:	UTILITY, INDUSTRIAL PLANTS, DATA CENTER, HIGHLY POPULATED FACILITIES
CODE RESTRICTIONS:	FOR USE WITH ALL POWER LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500FT OR 1000 FT BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD, ZERO HALOGEN INSULATION, ZERO HALOGEN JACKET, RIPCORDER, JACKET COLOR: RED, COLOR CODE CHART 17, ALSO LISTED IN ARTICLE 760



Multi-Conductor, Unshielded, Riser Rated

AWG	COND	STR/SOL	NOM O.D.	NOM CAP	UL LISTING	AVG LBS	SPEC #
18	2	SOL	.161	30.92	FPLR/CL3R	15	F40519
16	2	SOL	.190	34.46	FPLR/CL3R	22	F50332
14	2	SOL	.216	35.29	FPLR/CL3R	36	F60296

ZERO HALOGEN FIRE ALARM

Multi-Conductor, Shielded, Riser Rated

APPLICATIONS:	UTILITY, INDUSTRIAL PLANTS, DATA CENTER, HIGHLY POPULATED FACILITIES
CODE RESTRICTIONS:	FOR USE WITH ALL POWER LIMITED CIRCUITS EXCEPT THOSE IN PLENUMS
FEATURES:	AVAILABLE IN 500FT OR 1000 FT BOXES OR REELS, SEQUENTIAL FOOTAGE MARKINGS
CONSTRUCTION:	SOLID BARE COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD, ZERO HALOGEN INSULATION, ZERO HALOGEN JACKET, RIPCORDER, JACKET COLOR: RED, COLOR CODE CHART 17, ALSO LISTED IN ARTICLE 760



Multi-Conductor, Shielded, Riser Rated

AWG	COND	STR/SOL	NOM O.D.	NOM CAP	UL LISTING	AVG LBS	SPEC #
18	2	SOL	.167	49.29	FPLR/CL3R	17	F40522
16	2	SOL	.196	56.1	FPLR/CL3R	23	F50335
14	2	SOL	.222	57.66	FPLR/CL3R	37	F60299

NOTES: Available up to 12 conductor constructions. Also available with PLTC rating. Transit Authority Approved.

TECHNICAL DATA

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TECHNICAL DATA

VOLTAGE DROP CHART

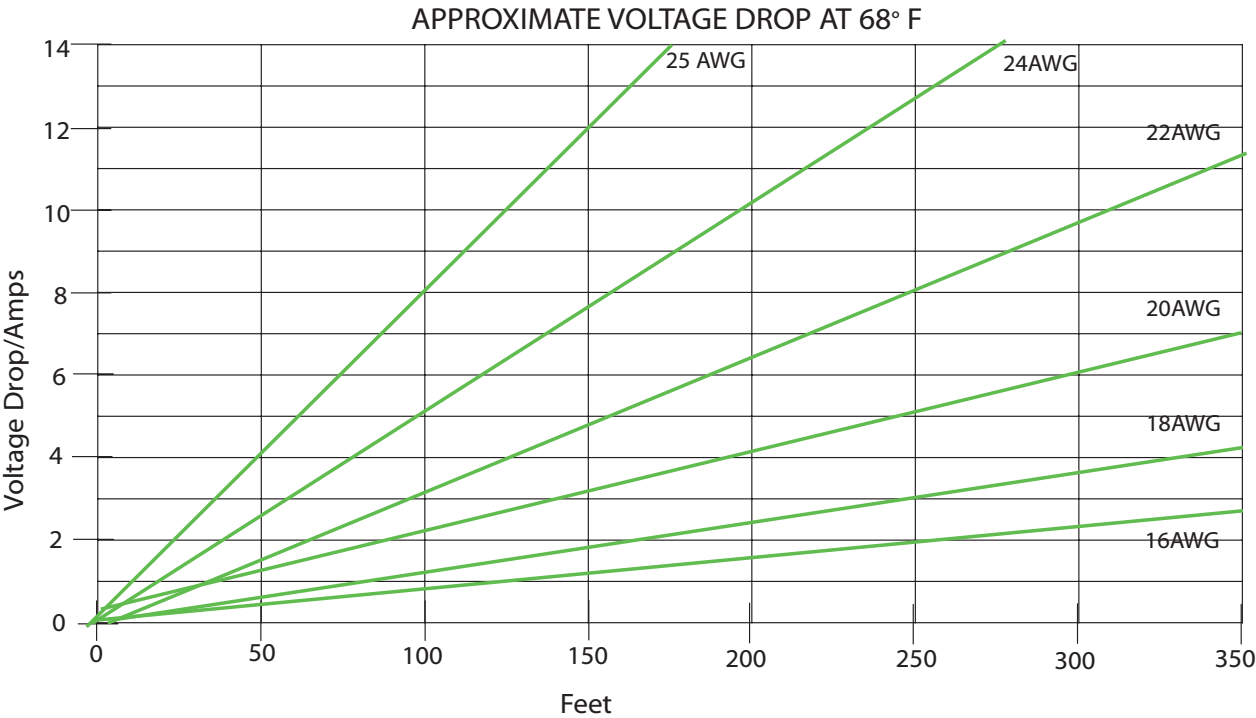


Chart is representative of the approximate values for AC resistive component of the circuit impedance.

TECHNICAL DATA

CONDUCTOR COLOR CODE CHART

Chart 1

Conductor	Color	Conductor	Color	Conductor	Color
1	BLK	5	BRN	9	VIO
2	WHT	6	BLU	10	GRY
3	RED	7	ORG	11	PNK
4	GRN	8	YEL	12	BGE

Chart 4

Conductor	Color/Stripe	Conductor	Color/Stripe	Conductor	Color/Stripe
1	WHT	5	YEL	9	GRY
2	BLK	6	BLU	10	VIO
3	RED	7	BRN	11	WHT / BLK
4	GRN	8	ORG	12	WHT / BRN

Chart 11

Conductor	Color/Stripe	Conductor	Color/Stripe	Conductor	Color/Stripe
1	BLK	7	VIO	13	RED / YEL
2	RED	8	GRN	14	BLK / RED
3	BRN	9	RED / BLK	15	BLK / WHT
4	BLU	10	RED / WHT	16	BLK
5	ORG	11	RED / BLU	17	RED
6	YEL	12	RED / ORG		

KEY

BGE•BEIGE **BLK**•BLACK **BLU**•BLUE **BRN**•BROWN **GRN**•GREEN **GRY**•GRAY
ORG•ORANGE **PNK**•PINK **VIO**•VIOLET **WHT**•WHITE **YEL**•YELLOW

TECHNICAL DATA

CONDUCTOR COLOR CODE CHART

Chart 17

Conductor	Color/Stripe	Conductor	Color/Stripe	Conductor	Color/Stripe
1	BLK	7	ORG	13	WHT / BLK
2	RED	8	YEL	14	WHT / RED
3	WHT	9	VIO	15	WHT / GRN
4	GRN	10	GRY	16	WHT / ORG
5	BRN	11	PNK	17	WHT / BLU
6	BLU	12	BGE	18	WHT / BRN

Chart 172

Conductor	Color	Conductor	Color
1	WHT	6	WHT
2	WHT	7	WHT
3	WHT	8	WHT
4	WHT	9	WHT
5	WHT	10	WHT

Chart 504

Pair	Color	Pair	Color
1	BLK & WHT	3	BRN & ORG
2	RED & GRN		

Chart 507

Pair	Color	Pair	Color
1	BLK & RED	3	ORG & BRN
2	GRN & WHT		

KEY

BGE•BEIGE **BLK**•BLACK **BLU**•BLUE **BRN**•BROWN **GRN**•GREEN **GRY**•GRAY
ORG•ORANGE **PNK**•PINK **VIO**•VIOLET **WHT**•WHITE **YEL**•YELLOW

TECHNICAL DATA

CONDUCTOR COLOR CODE CHART

Chart 553

Pair	Color	Pair	Color	Pair	Color
1	BLK & RED	8	RED & WHT	15	GRN & BLU
2	BLK & WHT	9	RED & GRN	16	GRN & YEL
3	BLK & GRN	10	RED & BLU	17	GRN & BRN
4	BLK & BLU	11	RED & YEL	18	GRN & ORG
5	BLK & YEL	12	RED & BRN	19	WHT & BLU
6	BLK & BRN	13	RED & ORG	20	WHT & YEL
7	BLK & ORG	14	GRN & WHT	21	WHT & BRN

Chart 564

Pair	Color	Pair	Color
1	BLK & RED	3	ORG & BLU
2	WHT & GRN	4	BRN & YEL

Chart 595

Pair	Color	Pair	Color	Pair	Color
1	BLK #1 & WHT #1	9	BLK #9 & WHT #9	17	BLK #17 & WHT #17
2	BLK #2 & WHT #2	10	BLK #10 & WHT #10	18	BLK #18 & WHT #18
3	BLK #3 & WHT #3	11	BLK #11 & WHT #11	19	BLK #19 & WHT #19
4	BLK #4 & WHT #4	12	BLK #12 & WHT #12	20	BLK #20 & WHT #20
5	BLK #5 & WHT #5	13	BLK #13 & WHT #13	21	BLK #21 & WHT #21
6	BLK #6 & WHT #6	14	BLK #14 & WHT #14	22	BLK #22 & WHT #22
7	BLK #7 & WHT #7	15	BLK #15 & WHT #15	23	BLK #23 & WHT #23
8	BLK #8 & WHT #8	16	BLK #16 & WHT #16	24	BLK #24 & WHT #24

KEY

BGE•BEIGE **BLK**•BLACK **BLU**•BLUE **BRN**•BROWN **GRN**•GREEN **GRY**•GRAY
ORG•ORANGE **PNK**•PINK **VIO**•VIOLET **WHT**•WHITE **YEL**•YELLOW

TECHNICAL DATA

CONDUCTOR COLOR CODE CHART

Chart 626

Conductor	Color/Stripe	Conductor	Color/Stripe	Conductor	Color/Stripe
1	WHT/BLU & BLU/WHT	10	RED/GRY & GRY/RED	19	YEL/BRN & BRN/YEL
2	WHT/ORG & ORG / WHT	11	BLK/BLU & BLU/BLK	20	YEL/GRY & GRY/YEL
3	WHT/GRN & GRN/WHT	12	BLK/ORG & ORG/BLK	21	VIO/BLU & BLU/VIO
4	WHT/BRN & BRN/WHT	13	BLK/GRN & GRN/BLK	22	VIO/ORG & ORG/VIO
5	WHT/GRY & GRY/WHT	14	BLK/BRN & BRN/BLK	23	VIO/GRN & GRN/VIO
6	RED/BLU & BLU/RED	15	BLK/GRY & GRY/BLK	24	VIO/BRN & BRN/VIO
7	RED/ORG & ORG/RED	16	YEL/BLU & BLU/YEL	25	VIO/GRY & GRY/VIO
8	RED/GRN & GRN/RED	17	YEL/ORG & ORG/YEL		
9	RED/BRN & BRN/RED	18	YEL/GRN & GRN/YEL		

Chart 639

Pair	Color	Pair	Color	Pair	Color
1	BLK & BRN	5	RED & ORG	9	BLK & GRN
2	BLU & VIO	6	BGE & PNK	10	RED & WHT
3	YEL & GRN	7	BLK & WHT	11	RED & GRN
4	GRY & WHT	8	BLK & RED	12	RED & BLU

Chart 642

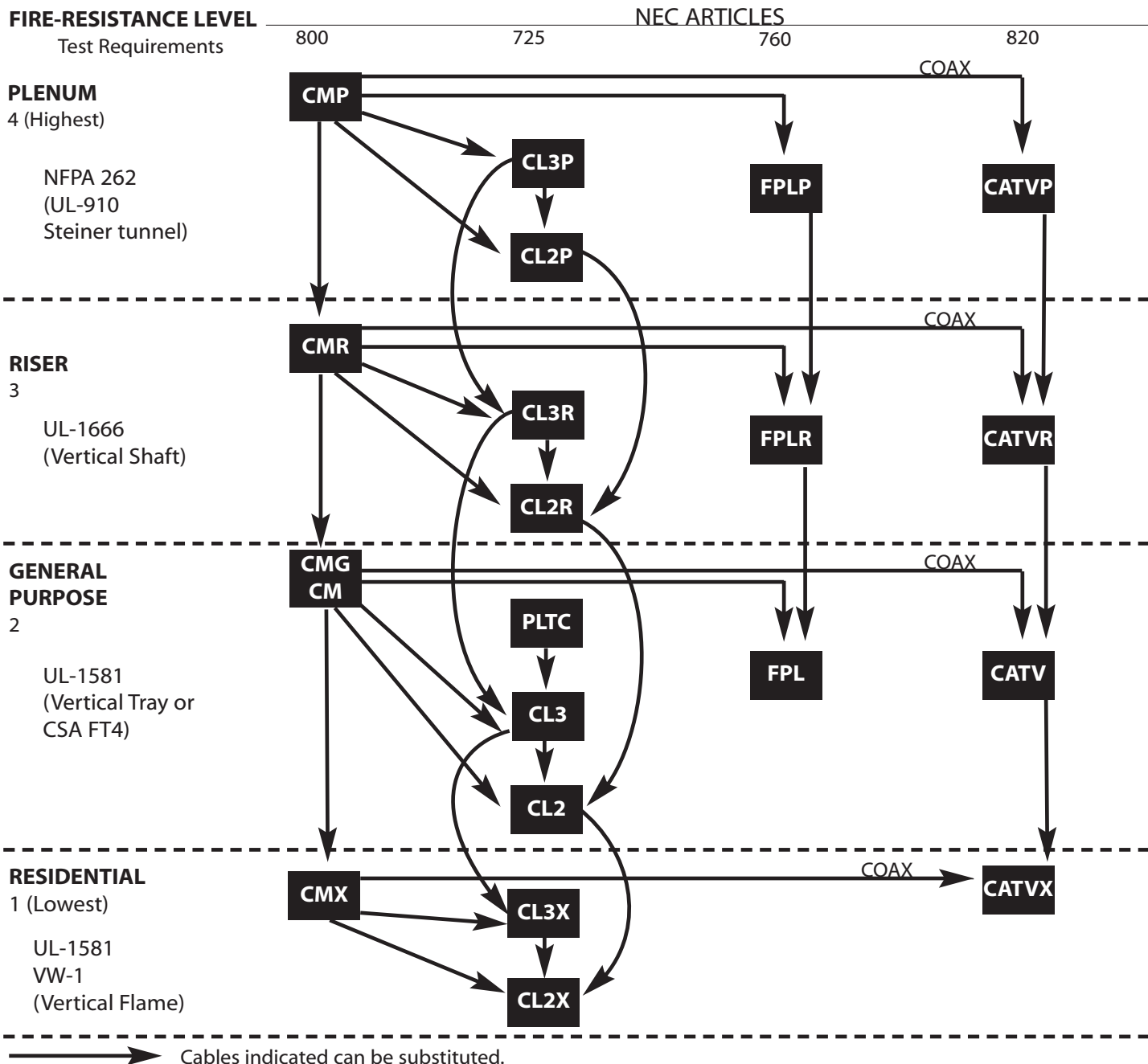
Pair	Color		Color
1	ORG	+	WHT/ORG
2	GRN	+	WHT/GRN
3	BLU	+	WHT/BLU
4	BRN	+	WHT/BRN

KEY

BGE•BEIGE **BLK**•BLACK **BLU**•BLUE **BRN**•BROWN **GRN**•GREEN **GRY**•GRAY
ORG•ORANGE **PNK**•PINK **VIO**•VIOLET **WHT**•WHITE **YEL**•YELLOW

TECHNICAL DATA

NEC CABLE SUBSTITUTION CHART



NEC Type	Definition
CMP, CMR, CMG, CM, CMX	Communications Cable
CL3P, CL3R, CL3, CL3X, CL2P, CL2R, CL2, CL2X	Class 2 and Class 3 Remote-Control, Signaling and Power Limited Cables
FPLP, FPLR, FPL	Power Limited Fire Alarm Cables
CATVP, CATVR, CATV, CATVX	Community Antenna Television and Radio Distribution Cables
PLTC	Power Limited Tray Cables

TECHNICAL DATA

Solid Copper Wire, American Wire Gauge

Gauge (AWG)	Nominal O.D.		Nominal Circular MIL Area	Nominal Weight (lbs.per 1000 ft.)	Nominal Resistance @ 68°F (ohms/1000 ft.)
Inches	mm				
10	.1019	2.60	10380.0	31.43	.9989
11	.0907	2.30	8234.0	24.92	1.260
12	.0808	2.05	6530.0	19.77	1.588
13	.0720	1.83	5178.0	15.68	2.003
14	.0741	1.63	4107.0	12.43	2.525
15	.0571	1.45	3260.0	9.858	3.184
16	.0508	1.29	2583.0	7.818	4.016
17	.0453	1.15	2050.0	6.200	5.064
18	.0403	1.02	1620.0	4.917	6.385
19	.0359	.912	1200.0	3.899	8.051
20	.0320	.813	1020.0	3.092	10.15
21	.0285	.724	812.1	2.452	12.80
22	.0253	.643	640.4	1.945	16.14
23	.0226	.574	511.5	1.542	20.36
24	.0201	.511	404.0	1.223	25.67
25	.0179	.455	320.4	.9699	32.37
26	.0159	.404	253.0	.7692	40.81
27	.0142	.361	201.5	.6100	51.47
28	.0126	.320	159.8	.4837	64.90
29	.0113	.287	126.7	.3836	81.83
30	.0100	.254	100.5	.3042	103.2
31	.0089	.226	79.7	.2413	130.1
32	.0080	.203	63.21	.1913	164.1
33	.0071	.180	50.13	.1517	206.9
34	.0063	.160	39.75	.1203	260.9
35	.0056	.142	31.52	.09542	331.0
36	.0050	.127	25.00	.07568	414.8
37	.0045	.114	19.83	.0613	512.1
38	.0040	.102	15.72	.04759	648.6
39	.0035	.089	12.20	.03774	847.8
40	.0031	.079	9.61	.02993	1080.0

TECHNICAL DATA

Stranded Copper Wire, American Wire Gauge

Gauge (AWG)	Stranding (Nom. AWG)	Min. Average OD of Strand	Approximate OD		ASTM Min. Circular MIL Area	Min Weight (lbs/1000 ft.)	Max. Resistance @ 68 °F (ohms/1000 ft.)
			Inches	mm			
36	7x44	.0019	.006	.152	25	.076	414.8
34	7x42	.0024	.0075	.191	39.7	.121	260.9
32	7x40	.0030	.0093	.236	64	.195	164.1
32	19x44	.0018	.010	.254	64	.195	164.1
30	7x38	.0038	.012	.305	100	.304	112
30	19x42	.0023	.012	.305	100	.304	112
28	7x36	.0048	.015	.381	159	.484	70.7
28	19x40	.0029	.016	.406	159	.484	70.7
27	7x35	.0054	.017	.432	202	.614	55.6
26	7x34	.0060	.019	.483	253	.770	44.4
26	10x36	.0050	.021	.533	253	.770	44.4
26	19x38	.0036	.020	.508	253	.770	44.4
24	7x32	.0076	.024	.610	404	1.229	27.7
24	10x34	.0064	.024	.610	404	1.229	27.7
24	19x36	.0046	.024	.610	404	1.229	27.7
24	42x40	.0031	.023	.584	404	1.229	27.7
22	7x30	.0096	.030	.762	640	1.947	17.5
22	19x34	.0058	.031	.787	640	1.947	17.5
22	26x36	.0050	.030	.762	640	1.947	17.5
20	7x28	.0126	.038	.965	1020	3.103	10.9
20	10x30	.0101	.037	.940	1020	3.103	10.9
20	19x32	.0073	.037	.940	1020	3.103	10.9
20	26x34	.0063	.036	.914	1020	3.103	10.9
20	42x36	.0049	.038	.965	1020	3.103	10.9

TECHNICAL DATA

Stranded Copper Wire, American Wire Gauge

Gauge (AWG)	Stranding (Nom. AWG)	Min. Average OD of Strand	Approximate OD		ASTM Min. Circular MIL Area	Min Weight (lbs/1000 ft.)	Max. Resistance @ 68 °F (ohms/1000 ft.)
			Inches	mm			
18	7x26	.0152	.048	1.22	1620	4.93	6.92
18	16x30	.0101	.047	1.19	1620	4.93	6.92
18	19x30	.0092	.049	1.24	1620	4.93	6.92
18	42x34	.0062	.047	1.19	1620	4.93	6.92
18	65x36	.0050	.047	1.19	1620	4.93	6.92
16	7x24	.0192	.060	1.52	2580	7.85	4.35
16	19x29	.0017	.058	1.47	2580	7.85	4.35
16	26x30	.0100	.059	1.50	2580	7.85	4.35
16	65x34	.0063	.059	1.50	2580	7.85	4.35
16	105x36	.0050	.059	1.50	2580	7.85	4.35
14	7x22	.0242	.076	1.93	4110	12.50	2.73
14	19x26	.0147	.071	1.80	4110	12.50	2.73
14	42x30	.0099	.075	1.91	4110	12.50	2.73
14	105x34	.0063	.075	1.91	4110	12.50	2.73
12	7x20	.0305	.096	2.44	6530	19.86	1.71
12	19x25	.0185	.093	2.36	6530	19.86	1.71
12	65x30	.0100	.095	2.41	6530	19.86	1.71
12	165x34	.0063	.095	2.41	6530	31.58	1.71
10	37x26	.0167	.115	2.92	10380	31.58	1.08
10	65x28	.0126	.120	3.05	10380	31.58	1.08
10	105x30	.0099	.118	3.00	10380	31.58	1.08

TECHNICAL DATA

Comparative Properties of Plastic Insulating & Jacketing Compounds

Properties	Polypropylene	Cellular Polypropylene	PUR	Nylon	CPE
Oxidation Resistance	E	E	E	E	E
Heat Resistance	E	E	G	E	E
Oil Resistance	F	F	E	E	E
Low-Temperature Flexibility	P	P	G	G	E
Weather, Sun Resistance	E	E	G	E	E
Ozone Resistance	E	E	E	E	E
Abrasion Resistance	F-G	F-G	O	E	E-O
Electrical Properties	E	E	P	P	E
Flame Resistance	P	P	P	P	E
Nuclear Radiation Resistance	F	F	G	F-G	O
Water Resistance	E	E	P-G	P-F	O
Acid Resistance	E	E	F	P-F	E
Alkali Resistance	E	E	F	E	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kersone, etc.)	P-F	P	P-G	G	E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc)	P-F	P	P-G	G	G-E
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P	P	P-G	G	E
Alcohol Resistance	E	E	P-G	P	E
Underground Burial	N/A	N/A	G	P	E-O

Properties	PVC	LDPE	Cellular Polyethylene	HDPE
Oxidation Resistance	E	E	E	E
Heat Resistance	G-E	G	G	E
Oil Resistance	F	G-E	G	G-E
Low-Temperature Flexibility	P-G	E	E	E
Weather, Sun Resistance	G-E	E	E	E
Ozone Resistance	E	E	E	E
Abrasion Resistance	F-G	G	F	E
Electrical Properties	F-G	E	E	E
Flame Resistance	E	P	P	P
Nuclear Radiation Resistance	F	G-E	G	G-E
Water Resistance	F-G	E	E	E
Acid Resistance	G-E	G-E	G-E	E
Alkali Resistance	G-E	G-E	G-E	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kersone, etc.)	P	G-E	G	G-E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc)	P-F	P	P	P
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P-F	G	G	G
Alcohol Resistance	P-F	E	E	E
Underground Burial	P-G	G	N/A	E

Legend

P Poor

F Fair

G Good

E Excellent

O Outstanding

TECHNICAL DATA

Nominal Temperature Range for Various Insulating & Jacketing Compounds

Compound	Normal Low (in °C)	Normal High (in °C)	Special Low (in °C)	Special High (in °C)
Chlorosulfonated Polyethylene (Hypalon)	-20	90	-40	105
EPDM (Ethylene-Propylene-Diene Monomer)	-55	105	--	150
Neoprene	-20	60	-55	90
Polyethylene (Solid or Foamed)	-60	80	--	--
Polypropylene (Solid or Foamed)	-40	105	--	--
Rubber	-30	60	-55	75
FEP	-70	200	--	--
PVC	-20	80	-55	105
Silicone	-80	150	--	200
Halar	-70	150	--	--
TFE	-70	260	--	--
CPE	-35	90	-45	105
PVDF/PVF	-20	150/125	-40	150/150

Comparative Properties of Fluoropolymer Insulating & Jacketing Compounds

Properties	FEP	ETFE	TFE	PVDF/PVF	E-CTFE
Oxidation Resistance	O	E	O	O	O
Heat Resistance	O	E	O	O	O
Oil Resistance	O	E	E-O	E	O
Low-Temperature Flexibility	O	E	O	F	O
Weather, Sun Resistance	O	E	O	E-O	O
Ozone Resistance	E	E	O	E	E
Abrasion Resistance	E	E	O	E	E
Electrical Properties	E	E	E	G-E	E
Flame Resistance	O	G	E	E	E-O
Nuclear Radiation Resistance	P-G	E	P	E	E
Water Resistance	E	E	E	E	E
Acid Resistance	E	E	E	G-E	E
Alkali Resistance	E	E	E	E	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, Etc.)	E	E	E	E	E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc)	E	E	E	G-E	E
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	E	E	E	G	E
Alcohol Resistance	E	E	E	E	E
Underground Burial	E	E	E	E	E

Legend

P Poor	F Fair	G Good
E Excellent	O Outstanding	

TECHNICAL DATA

Temperature Conversion Chart

°C ↔ °F	°C ↔ °F	°C ↔ °F
210	410	125
205	401	120
200	392	115
195	383	110
190	374	105
185	365	100
180	356	95
175	347	90
170	338	85
165	329	80
160	320	75
155	311	70
150	302	65
145	293	60
140	284	55
135	275	50
130	266	45
		257
		248
		239
		230
		221
		212
		203
		194
		185
		176
		167
		158
		149
		140
		131
		122
		113
		40
		35
		30
		25
		20
		15
		10
		5
		0
		-5
		-10
		-15
		-20
		-25
		-30
		-35
		-40

Conversion Formulas

$$^{\circ}\text{C} = 5/9 * (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = 9/5 ^{\circ}\text{C} + 32$$

Distance Conversion Chart

Feet → Meters	Meters → Feet
1	.3048
5	1.524
10	3.048
25	7.62
50	15.24
75	22.86
100	30.48
250	76.2
500	152.4
750	228.6
1000	304.8
1	3.280
5	16.404
10	32.80
25	82.02
50	164.0
75	246.1
100	328.1
250	820.2
500	1640.4
750	2460.6
1000	3280.8

TECHNICAL DATA

Conduit Fill Chart

Conduit Size		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
I.D. inches		.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	4.506	5.047
Permissible Area *		0.12	0.21	0.34	0.60	0.82	1.34	1.92	2.95	3.96	5.09	6.38	8.00
Cable O.D. inch	Cable Area Sq. inch												
0.100	0.008	15	27	44	76	103	170	243	376	503	648	812	1018
0.125	0.012	9	17	28	48	66	109	156	240	322	414	519	652
0.150	0.018	6	12	19	33	46	75	108	167	223	288	360	452
0.175	0.024	5	8	14	24	33	55	79	455	164	211	265	332
0.200	0.031	3	6	11	19	25	42	60	94	125	162	203	254
0.225	0.040	3	5	8	15	20	33	48	74	99	128	160	201
0.250	0.049	2	4	7	12	16	27	39	60	80	103	129	163
0.275	0.059	2	3	5	10	13	22	32	49	66	85	107	134
0.300	0.071	1	3	4	8	11	18	27	41	55	72	90	113
0.325	0.083	1	2	4	7	9	16	23	35	47	61	76	96
0.350	0.096	1	2	3	6	8	13	19	30	41	52	66	83
0.375	0.110	1	1	3	5	7	12	17	26	35	46	57	72
0.400	0.126	-	1	2	4	6	10	15	23	31	40	50	63
0.425	0.142	-	1	2	4	5	9	13	20	27	35	44	56
0.450	0.159	-	1	2	3	5	8	12	18	24	32	40	50
0.475	0.177	-	1	1	3	4	7	10	16	22	28	35	45
0.500	0.196	-	1	1	3	4	6	9	15	20	25	32	40
0.525	0.216	-	-	1	2	3	6	8	13	18	23	29	36
0.550	0.238	-	-	1	2	3	5	8	12	16	21	26	33
0.575	0.260	-	-	1	2	3	5	7	11	15	19	24	30
0.600	0.283	-	-	1	2	2	4	6	10	13	18	22	28
0.625	0.307	-	-	1	1	2	4	6	9	12	15	20	26
0.650	0.332	-	-	1	1	2	4	5	8	11	15	19	24
0.675	0.358	-	-	-	1	2	3	5	8	11	14	17	22
0.700	0.385	-	-	-	1	2	3	4	7	10	13	16	20
0.725	0.413	-	-	-	1	1	3	4	7	9	12	15	19
0.750	0.442	-	-	-	1	1	3	4	6	8	11	14	18
0.775	0.472	-	-	-	1	1	2	4	6	8	10	13	16

TECHNICAL DATA

Conduit Fill Chart (continued)

Conduit Size		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
I.D. inches		.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	4.506	5.047
Permissible Area *		0.12	0.21	0.34	0.60	0.82	1.34	1.92	2.95	3.96	5.09	6.38	8.00
Cable O.D. inch	Cable Area Sq. inch												
0.800	0.503	-	-	-	1	1	2	3	5	7	10	12	15
0.825	0.535	-	-	-	1	1	2	3	5	7	9	11	14
0.850	0.567	-	-	-	1	1	2	3	5	6	8	11	14
0.875	0.601	-	-	-	-	1	2	3	4	6	8	10	13
0.900	0.636	-	-	-	-	1	2	3	4	6	8	10	12
0.925	0.672	-	-	-	-	1	1	2	4	5	7	9	11
0.950	0.709	-	-	-	-	1	1	2	4	5	7	8	11
0.975	0.747	-	-	-	-	1	1	2	3	5	6	8	10
1.000	0.785	-	-	-	-	1	1	2	3	5	6	8	10
1.025	0.825	-	-	-	-	-	1	2	3	4	6	7	8
1.050	0.866	-	-	-	-	-	1	2	3	4	5	7	8
1.075	0.908	-	-	-	-	-	1	2	3	4	5	7	8
1.100	0.950	-	-	-	-	-	1	2	3	4	5	6	8
1.125	0.994	-	-	-	-	-	1	1	2	3	5	6	8
1.150	1.039	-	-	-	-	-	1	1	2	3	4	6	7
1.175	1.084	-	-	-	-	-	1	1	2	3	4	5	7
1.200	1.131	-	-	-	-	-	1	1	2	3	4	5	7
1.225	1.179	-	-	-	-	-	1	1	2	3	4	5	6
1.250	1.227	-	-	-	-	-	1	1	2	3	4	5	6
1.275	1.277	-	-	-	-	-	1	1	2	3	3	4	6
1.300	1.327	-	-	-	-	-	1	1	2	2	3	4	6
1.325	1.379	-	-	-	-	-	-	1	2	2	3	4	5
1.350	1.431	-	-	-	-	-	-	1	2	2	3	4	5
1.375	1.485	-	-	-	-	-	-	1	1	2	3	4	5
1.400	1.539	-	-	-	-	-	-	1	1	2	3	4	5
1.425	1.595	-	-	-	-	-	-	1	1	2	3	3	5
1.450	1.651	-	-	-	-	-	-	1	1	2	3	3	4
1.475	1.709	-	-	-	-	-	-	1	1	2	2	3	4
1.500	1.767	-	-	-	-	-	-	1	1	2	2	3	4

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UL Approvals

Category Name
Appliance Wiring Material - Component
Communications Cable
Communications Cable Certified for Canada
Community Antenna Television Cable
Data Processing Cables
Fixture Wire
Flexible Cord
Flexible Cord Certified for Canada
Hoistway Cable
Instrumentation Tray Cable
Nonpower Limited Fire Alarm Cable
Power and Control Tray Cable
Power Limited Circuit Cable
Power Limited Fire Alarm Cable
Power Limited Fire Alarm Cable Certified for Canada
Processed Wire
Processed Wire - Component
Repackaged Electrical Construction Materials
Service Entrance Cable
Thermoplastic-insulated Wire
Thermoplastic-insulated Wire Certified for Canada
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Underground Feeder and Branch Circuit Cables
Wire, Special Purpose

Consult factory for International UL Approvals.

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