Providing the Total Wire & Cable Solution for

UTILITIES

TPC WIRE & CABLE CORP.

A Premier Farnell Company



TPC WIRE & CABLE PROVIDES

- High-performance problem-solving products
- Cost and time-saving products for industrial applications
- Personal sales support
- In-depth inventories
- Hard-to-find cord and cable products
- Knowledgeable customer service
- A safer electrical environment
- Longer lasting products
- Custom engineered products

Electrical cord and cable is a vital link in your facility's electrical system

Electrical equipment requires quality cord and cable that can stand up to today's industrial environments.

Many cord and cable applications are subject to one or more of the following conditions:

- Impact & Vibration
- Crushing & Abrasion
- Pulling & Flexing
- Oil, chemical & water deterioration
- Extreme heat & cold
- Unsafe areas

Too often, maintenance must use ORDINARY cord and cable in these areas because that's all that's available. These products do not hold up because they are not designed for maintenance environments.

As you know . . . the real cost of cord and cable maintenance includes not only the cost of material, but also the labor and downtime that result from unnecessary repair and replacement of damaged or worn-out cord and cable.

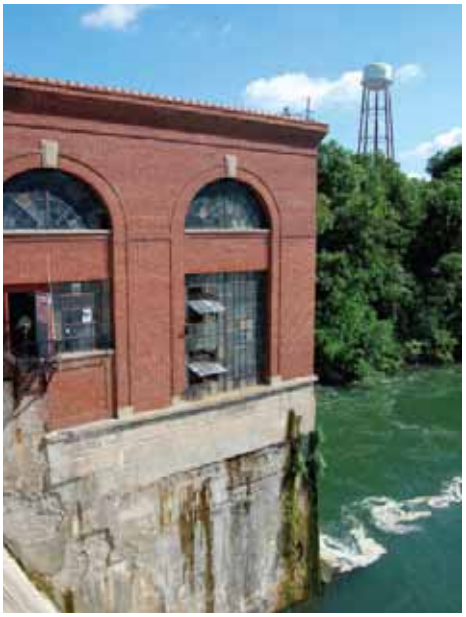
TPC Wire & Cable Solutions for Utilities

Choosing a high quality, high performance electrical cable and like accessories are of critical importance to save labor, material and downtime costs. TPC's line of cables, connectors and accessories are designed to withstand flexing, chemicals, extreme temperatures, abrasion or other abusive conditions.

With over 3,000 part numbers in stock and our in-house engineering staff, TPC is a single-source supplier of electrical cable, connectors and accessories that can accommodate virtually all industries. Our deep inventories and custom cut program allows you to purchase exactly the amount of cable you need for your specific application. TPC will cut the cable to length and package it to your requirements.

At TPC, research and development is a continuous process. Superior performance is a function of our high quality compounds and components, and matching the right cable to customer specific applications. As an ISO-9001 company, our quality inspection process is a critical part of the customer experience and ensures customers get the perfect cable every time.

Custom engineered products are also available, designed with application and environment information from the customer. These products are built specifically for an individual customer application and represent a true problem-solving service.



The cable, connectors and accessories presented in our catalog have been specifically designed for use in applications where performance and reliability are of the utmost importance. At TPC success is measured in the reduction of customer downtime and lower overall maintenance costs. Our commitment to our customer is the cornerstone of our business approach and what distinguishes TPC from the ordinary wire and cable supplier.

TYPE SH MEDIUM VOLTAGE SINGLE CONDUCTOR POWER CABLE

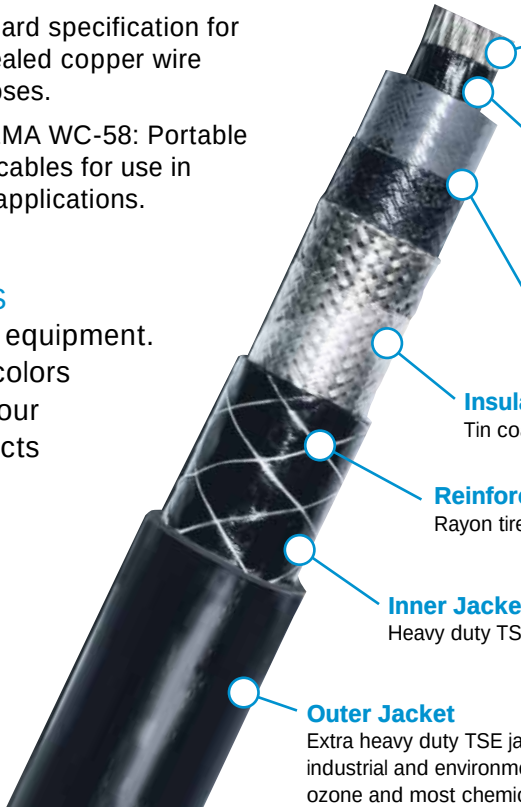
- 5,000 Volt - Yellow
- 15,000 Volt - Orange
- 25,000 Volt - Red
- 35,000 Volt - Black
- 90°C
- CSA Approved*

RATINGS

- ASTM B-33: Standard specification for tinned soft or annealed copper wire for electrical purposes.
- ICEA S-75-381/NEMA WC-58: Portable and power feeder cables for use in mines and similar applications.

APPLICATIONS

Mobile substation equipment. Other series and colors available through our Engineered Products Department.



Conductors
High flex tin coated bunch stranded copper conductors, for long life in harsh environments.

Conductor Shield
Combination of semi-conducting tape and extruded semi-conductive TSE.

Insulation
EPR insulation provides protection from moisture, heat and ozone.

Insulation Shield
Tin coated braid shield placed over semi-conductive tape.

Reinforcement
Rayon tire cord reinforcing, improves cable resistance to pulling and twisting.

Inner Jacket
Heavy duty TSE provides added strength.

Outer Jacket
Extra heavy duty TSE jacket provides excellent protection against industrial and environmental abuse. Resists tearing, abrasion, oil, impact, ozone and most chemicals.

ORDERING INFORMATION

	PART NO.	CABLE SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY	INSULATION THICKNESS (IN.)	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	CABLE WT. (LBS.) PER 1000'
5kV YELLOW	70502	2	259	190	.110	.125	.975	674
	70540	4/0	532	400	.110	.155	1.300	1393
15kV ORANGE	70102	2	259	195	.210	.155	1.203	881
	70110	1/0	266	260	.210	.155	1.325	1147
	70140	4/0	532	400	.210	.170	1.497	1594
	70135	350	888	550	.210	.170	1.765	2364
	70150	500	1221	685	.210	.170	1.900	2937
25kV RED	70210	1/0	266	260	.295	.170	1.500	1350
	70240	4/0	532	395	.295	.190	1.713	1909
	70235	350	888	545	.295	.190	1.886	2517
	70250	500	1221	680	.295	.205	2.048	3168
	70275	750	1850	870	.295	.205	2.253	4253
35kV* BLACK	70316	1/0	266	260	.340	.170	1.725	1632
	70340	4/0	532	395	.340	.190	1.895	2235
	70335	350	888	545	.340	.205	2.100	2901
	70350	500	1221	680	.340	.205	2.280	3396

35kV is NOT CSA Approved

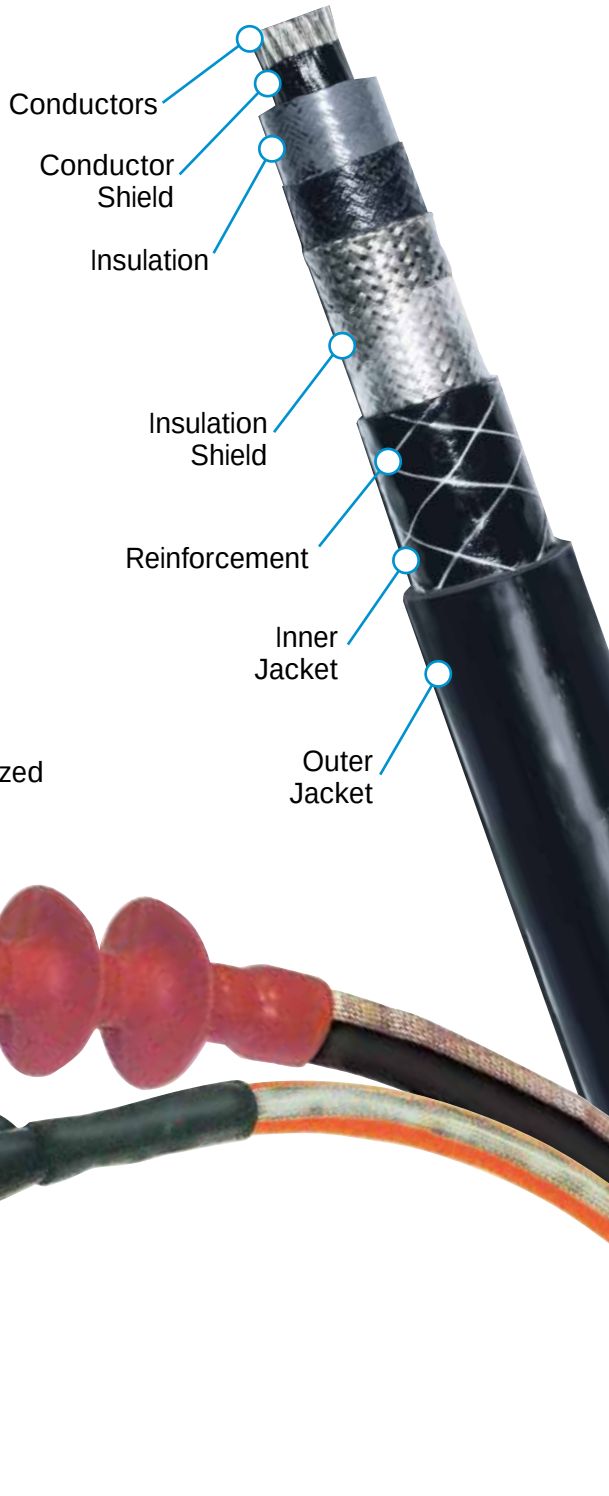
TYPE SH MEDIUM VOLTAGE POWER ASSEMBLIES

We stock the product so you don't have to!

TPC Wire & Cable carries deep inventories of Type SH cables and allows you to buy just the amount you need for your specific application.

Custom Cutting and Packaging Service

TPC will cut the cable to length for you and pack the product to your specific requirements. You will receive the product in the lengths you require ready to be installed.



Available

2 AWG to 750 MCM

5kv Yellow	15kv Orange	25kv Red	35kv* Black

*35kv is NOT CSA approved

Applications

- Suitable for mobile substation equipment.
- Anywhere a flexible medium voltage cable is needed.

Buy it Connectorized

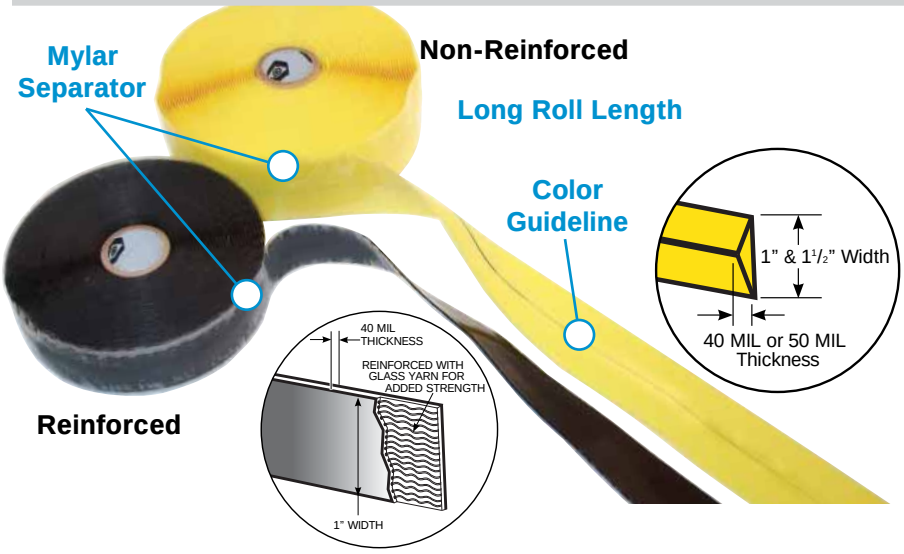
- Factory installed medium voltage terminations – standard or customized to meet your specific requirements.
- Factory installed load break elbows.
- Cut, packaged and shipped ready for installation.

Ratings

- ASTM B-33: Standard specification for tinned soft or annealed copper wire for electrical purposes
- ICEA S-75-381/NEMA WC-58: Portable and power feeder cables for use in mines and similar applications
- 90°C and CSA approved

VULKO-WRAP™ INSULATING MATERIAL

- Self-Vulcanizing Wrap
- High Dielectric Strength
- Temperature Rating (-60°F to +400°F)
- RoHS Compliant



High Dielectric Strength
Can be used for all electrical connections.

Specially Compounded, Synthetic Silicone Elastomer
Resistant to oil, water, ozone, and many chemicals. Wide temperature range from -60º F to +400º F.

Vulcanizes Immediately
Requires no heat – becomes fully bonded in 24 hours at room temperature. Remains pliable over time.

No Adhesives – Adheres Only to Itself
Easy to remove – leaves no residue. Covered fittings are immediately reusable.

Triangular Shape with Color Guideline
Allows even thickness for uniform high dielectric strength.

Non-Reinforced Product Stretches to Approximately 2-1/2 Times its Length
Conforms to irregular shapes and uneven surfaces. Can be used on parts which move or vibrate.

Width 1" to 1-1/2"
Covers more surface than ordinary tape with a single wrap.

Available in 40 MIL or 50 MIL Thickness
Extra thick design allows wrapping over sharp and irregular surfaces without tearing or puncturing.

OTHER APPLICATIONS

- Bus Bar Insulation
- Corrosive Areas
- Electroplating Danglers
- Food Related Equipment
- HVAC Equipment
- Lift Truck Battery Cable Terminals
- Motor Leads
- Temporary Repair of Low Pressure Air and Hydraulic Lines
- Transformer Tap Lead Insulation
- Washdown Areas

For Non-Reinforced

SPECIFICATIONS Meets U.S. Military Spec. MIL-I-46852, superseded by CID A-A-59163.

DIELECTRIC STRENGTH (Per ASTM D-149): 300 volts per mil of finished wrap thickness for 40 mil and 275 volts per mil of finished wrap thickness for 50 mil.

TENSILE/BREAK STRENGTH (Per ASTM D-412): 700 PSI Min.; 17 lbs. for 40 mil; 42 lbs. for 50 mil.

ELONGATION (Per ASTMD-412): 300% minimum.

SHELF LIFE Product should be stored at 70°F or less for maximum shelf life. Store in original packaging in clean dry environment when not in use.

PRODUCT LIMITATION Vulko-Wrap has a low abrasion and cut resistance. A protective overwrap is recommended for applications exposed to dragging or impact.

For Reinforced

SPECIFICATIONS Meets U.S. Military Spec. MIL-I-22444C.

DIELECTRIC STRENGTH (Per ASTM D-149) 500 volts per mil of finished wrap thickness for 40 mil.

ELONGATION (Per ASTMD-412) 15% minimum.

SHELF LIFE Product should be stored at 70°F or less for maximum shelf life. Store in original packaging in clean dry environment when not in use.

REINFORCEMENT Reinforcing braid embedded in center of material provides enhanced mechanical strength while still allowing the product to cover irregular shapes.

ORDERING INFORMATION

PART NO.	THICKNESS WIDTH & LGTH.	COLOR	DIELECTRIC STRENGTH	MEETS MIL SPEC	NO. OF WRAPS	FINISHED THICKNESS	VOLTAGE PROTECTION
98412 Non-Reinforced	**40 Mil** 1 in. x 36 ft.	Yellow	300 Volts/Mil	MIL-I-46852	1 2 3	20 mil 40 mil 60 mil	5,500 11,000 16,500
98512 Non-Reinforced	**50 Mil** 1 in. x 36 ft.	Yellow	275 Volts/Mil	MIL-I-46852	1 2 3	25 mil 50 mil 75 mil	6,875 13,750 20,625
98412BK Non-Reinforced	**40 Mil** 1 in. x 36 ft.	Black	300 Volts/Mil	MIL-I-46852	1 2 3	20 mil 40 mil 60 mil	5,500 11,000 16,500
98512BK Non-Reinforced	**50 Mil** 1 1/2 in. x 36 ft.	Black	275 Volts/Mil	MIL-I-46852	1 2 3	25 mil 50 mil 75 mil	6,875 13,750 20,625
18412 Reinforced	**40 Mil** 1 in. x 36 ft.	Black	500 Volts/Mil	MIL-I-22444C	1 2 3	36 mil 72 mil 108 mil	18,000 36,000 54,000

Assumes 50% overlap and stretching the wrap 2.5 times. Assumes 25% overlap and stretching the wrap 10%.

GENERAL INSTRUCTIONS

1. Measure and cut the desired length of Vulko-Wrap from the roll and remove the mylar separator. Take precaution to avoid having the wrap fold onto itself.

2. Hold one end of the Vulko-Wrap on the termination to be covered. Stretch and wrap the Vulko-Wrap™ around the termination, overlapping it approximately 50%.

3. Continue to stretch and wrap while applying until the entire termination is encapsulated. Overlap the tail end of the Vulko-Wrap back over itself.

4. Apply a second layer of Vulko-Wrap over the entire surface of the first layer. This second layer (and subsequent layers) does not require any stretching. Continue to wrap until desired or required thickness is achieved.

It is recommended that you apply at least two (2) layers of Vulko-Wrap™ over any surface you are covering. The number of layers required is dependent upon the voltage potential of the termination the Vulko-Wrap is being applied over. See **ORDERING INFORMATION** on front.

Apply the first layer of Vulko-Wrap with a maximum stretch (< 75% of original width). Apply the second layer with minimal or zero stretch of the wrap.

SPLICE CONFIGURATIONS

In-Line Splice Connections

1. Begin wrapping the first layer of Vulko-Wrap onto the termination by holding the lead end on the surface and stretching the tape around until it overlaps itself approximately 50%. Continue to wrap the termination until the Vulko-Wrap extends 1.5 inches in each direction beyond the termination (See **FIGURE 1**).

Overlap the tail end of the Vulko-Wrap back over itself. The first layer should have a maximum stretch of < 75% of its original width.

2. Apply a second layer (and subsequent layers) over the entire surface of the first layer. The second and subsequent layers do not require any stretching. Continue to wrap until the desired or required thickness is achieved.

NOTE: If you have a connection or splice with irregular surfaces, you can use Vulko-Wrap to fill in any voids or cavity. You can cut pieces of Vulko-Wrap and create "pillows' by layering them and pushing them into the voids or cavities. You can stretch and push the Vulko-Wrap into the void or cavity using your finger or thumb to apply pressure.

Reinforced Vulko-Wrap can be used as a pre-wrap on sharp edges, or for the total wrap.

3. After the connection has been completely wrapped, a layer of abrasion protection must be added like TPC 18412 or a vinyl electrical tape.

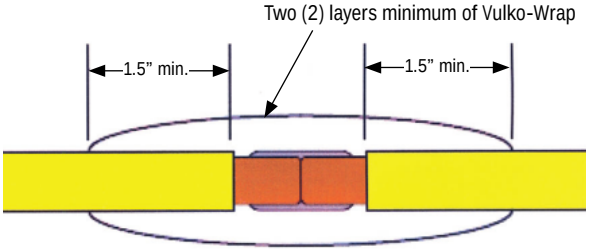


FIGURE 1 **In-Line Splice**

"Y" and "V" Splice Connections

1. Use the Vulko-Wrap to fill in and/or smooth out the voids existing around the non-insulated terminal connection (the "V" gaps existing in the "Y" and "V" connections). Carefully wrap Vulko-Wrap in a crossing pattern around these gaps at the non-insulated terminals. Use a maximum stretch (< 75% of original width) when applying the Vulko-Wrap around the gaps at the non-insulated terminal connections.

2. After completing the step above, start to wrap the Vulko-Wrap around the "Y" or "V" splice making sure to meet the minimum 1.5 inch clearance as shown in **FIGURES 2a, 2b or 3**. Again, the first layer should have a maximum stretch of < 75% of its original width. Be sure to overlap the tail end of the Vulko-Wrap back over itself.

3. Apply a second layer (and subsequent layers) over the entire surface of the first layer. The second and subsequent layers do not require any stretching. Continue to wrap until the desired or required thickness is achieved.

4. After the connection has been completely wrapped, a layer of abrasion protection must be added like TPC 18412 or a vinyl electrical tape.

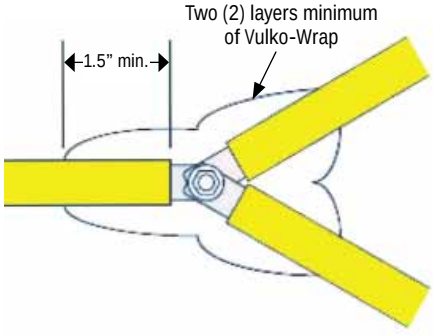


FIGURE 2a **"Y" Splice** (top view)

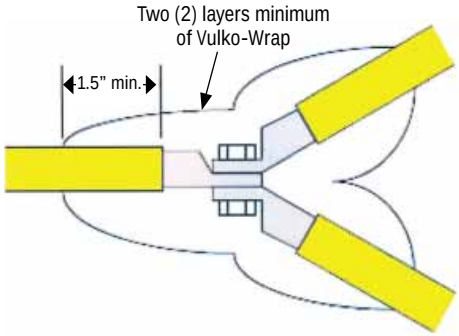


FIGURE 2b **"Y" Splice** (side view)

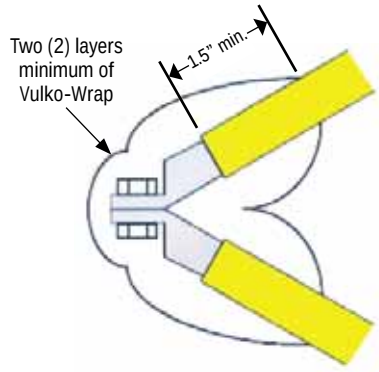
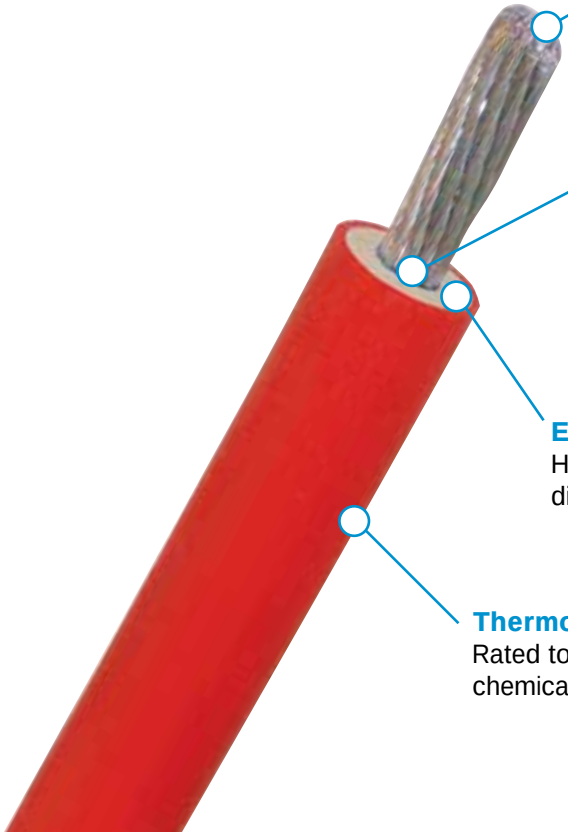


FIGURE 3 **"V" Splice**

NOTE: Cushion sharp edges by applying extra layered sections of Vulko-Wrap or use Reinforced Vulko-Wrap

UNSHIELDED JUMPER CABLE

- 90°C
- 5,000 to 15,000 Volts



Extra Flexible Tinned Copper Conductors
Extends the flex life of this cable in abusive applications. Tinned copper resists corrosion.

Semi-Conductive Tape
Placed directly over the tinned copper conductor the semi-conductive tape prevents the insulation compound from bonding to the conductor, this makes the product easier to strip and terminate.

Extruded Semi-Conductive EPR Insulation
Heat resistant, 90°C EPR insulation provides excellent dielectric properties and resists moisture and ozone.

Thermoset Jacket
Rated to 90°C and provides excellent protection from abrasion, chemicals, impact and most chemicals.

ORDERING INFORMATION

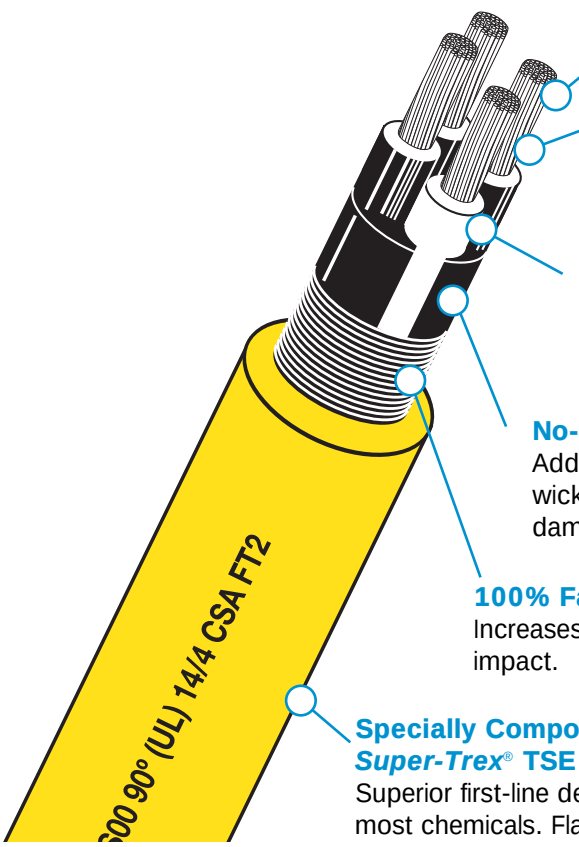
PART NO.	CONDUCTOR SIZE	CONDUCTOR STRANDING	AMPACITY	INSULATION THICKNESS (IN.)	JACKET THICKNESS (IN.)	NOM. O.D. (IN.)	WT. (LBS.) PER 1000'
78006	6	133	110	.210	.065	.820	360
78004	4	259	145	.210	.065	.880	449
78002	2	259	170	.210	.065	.940	563
78010	1/0	266	260	.210	.065	1.05	742
78020	2/0	323	300	.210	.065	1.10	869
78040	4/0	532	400	.210	.065	1.22	1181
78350	350	888	550	.210	.065	1.34	1692
78500	500	1221	685	.210	.065	1.46	2192

Application

Jumper cables should only be used on equipment and in applications where an unshielded flexible medium voltage cable is required. Caution should be taken to limit access to these areas and cables to authorized properly trained personnel. Since these cables are not shielded, they must be positioned away from contact with grounds, transformer cases, etc, to avoid possible high stress and capacitance leakage. Jumper cables are intended for temporary use and should not be used in place of shielded medium voltage cables.

ULTRA-GARD™ PORTABLE CORD

- UL Listed
- CSA Certified
- SOO Rated
- MSHA Approved
- 90°C to -30°C
- 600 Volt
- UV Resistant
- Extra Hard Usage
- FT-2
- RoHS Compliant



Tinned Conductors
Resists corrosion, easier to solder.

Tinned Extra-Flex™ #34 AWG Bunch Stranded Copper
Improves flexibility and reduces conductor fatigue and breakage.

Live-Flex™ Oil and Fluid-Resistant Thermoset Insulation, with Paper Separator
Resists effects of lubricating oils, coolants, cutting oils, acids, and most chemicals. Superior tensile strength.

No-Wick™ Rayon-Reinforced Synthetic Filler
Adds tensile strength. Improves flexibility and won't wick up liquids. Acts like a shock absorber to reduce damage from impact.

100% Fabric Serve, Jacket Impregnated
Increases tear resistance, provides greater protection from impact.

Specially Compounded, Security Yellow, *Super-Trex*® TSE Jacket
Superior first-line defense against tearing, abrasion, impact, oil, ozone and most chemicals. Flame and heat-resistant. Extreme all-weather flexibility.

ORDERING INFORMATION

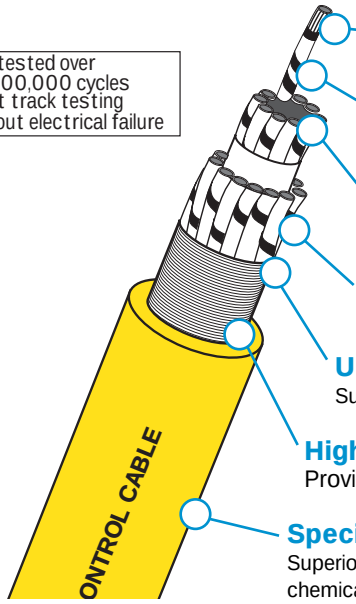
PART NO.	CORD SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY (1)	INSULATION THICKNESS (IN.)	JACKET THICKNESS (IN.)	MAX. O.D. (IN.)	WT. (LBS.) PER 1000'
87192	18/3	41 x 34	10	.030	.060	.380	80
87197	18/4	41 x 34	7	.030	.060	.408	100
87191	16/2	65 x 34	13	.030	.060	.388	85
87193	16/3	65 x 34	13	.030	.060	.408	105
87193AU*	16/3	65 x 34	13	.030	.060	.408	105
87198	16/4	65 x 34	10	.030	.060	.435	120
87202	16/5	65 x 34	8	.030	.080	.520	175
87202AU*	16/5	65 x 34	8	.030	.060	.520	175
87206	16/6	65 x 34	8	.030	.080	.560	210
87207	16/7	65 x 34	7	.030	.080	.630	240
87208	16/8	65 x 34	7	.030	.080	.640	275
87194	14/3	104 x 34	18	.045	.080	.548	180
87199	14/4	104 x 34	15	.045	.080	.590	210
87195	12/3	165 x 34	25	.045	.095	.623	235
87200	12/4	165 x 34	20	.045	.095	.675	290
87196	10/3	259 x 34	30	.045	.095	.685	310
87201	10/4	259 x 34	25	.045	.095	.738	385

*NOTES: (1) Maximum allowable current per conductor when one conductor is utilized as ground or neutral. Ampacities are based on an ambient temperature of 30º C with a conductor temperature of 90º C. *Automotive Standard Conductor Color Code.*

REDUCED DIAMETER CONTROL CABLE

- UL Listed
- CSA Certified
- 600 Volt
- 90ºC
- RoHS Compliant

20 MILLION Flex tested over 20,000,000 cycles in cat track testing without electrical failure



Bunch Stranded Tinned Soft Drawn Copper
Longer flex life in flexing and twisting applications. Easier to solder.

Conductors are Coded with Alpha-Numeric Identification
Provides fast identification of conductors. Easy to read and simplifies installation.

Nylon Fillers
Low friction, non wicking fillers provide excellent flexibility.

Hytrel Conductor Insulation
Oil resistant and has high dielectric, tensile and mechanical properties.

Uni-Lay Construction Alternating Bundles
Superior performance in flexing and torsional applications.

High Flex Tape Separator Around Inner Components
Provides easy movement of the conductor bundle for longer flex life.

Specially Compounded, Security Yellow, *Super-Trex*® TPE Jacket
Superior first-line defense against oil, ozone and UV exposure as well as most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

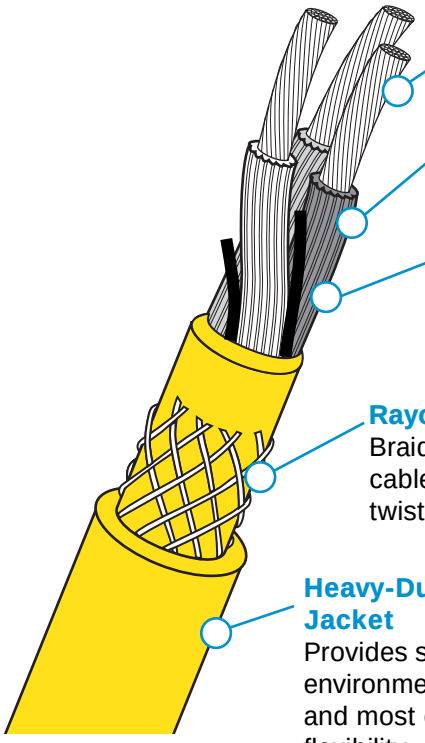
ORDERING INFORMATION

	PART NO. (CONDUCTOR)			CORD SIZE	CONDUCTOR	AMPACITY	INSULATION	JACKET	NOMINAL	WT. (LBS.)
	STD.	RED	BLUE	AWG/COND.	STRANDING	(1)	THICKNESS (IN.)	THICKNESS (IN.)	O.D. (IN.)	PER 1000'
16 AWG FT-4 TC Rated Exposed Run	—	88505R	88505B	16/5	65 x 34	14	.010	.060	.358	88
	88512	88512R	88512B	16/12	65 x 34	12	.010	.070	.510	191
	88516	—	—	16/16	65 x 34	12	.010	.070	.550	239
	—	88519R	88519B	16/19	65 x 34	12	.010	.075	.596	281
	88522	—	—	16/22	65 x 34	12	.010	.080	.650	327
	88525	88525R	88525B	16/25	65 x 34	12	.010	.080	.700	376
	88531	—	—	16/31	65 x 34	10	.010	.080	.725	425
	—	88533R	88533B	16/33	65 x 34	10	.010	.080	.745	448
	88541	—	—	16/41	65 x 34	10	.010	.100	.870	608
	—	88547R	88547B	16/47	65 x 34	10	.010	.085	.890	653
	88549	—	—	16/49	65 x 34	10	.010	.100	.900	714
	88560	—	—	16/60	65 x 34	8	.010	.100	.975	783
18 AWG FT-4 TC Rated Exposed Run	88905	—	—	18/5	41 x 34	10	.010	.060	.321	68
	88912	—	—	18/12	41 x 34	9	.010	.070	.444	137
	88919	—	—	18/19	41 x 34	9	.010	.075	.538	208
	88925	—	—	18/25	41 x 34	9	.010	.080	.613	273
	88933	—	—	18/33	41 x 34	7	.010	.080	.645	318
	88949	—	—	18/49	41 x 34	7	.010	.090	.787	473
	88965	—	—	18/65	41 x 34	6	.010	.100	.892	614
20 AWG FT-1	88305	—	—	20/5	26 x 34	9.0	.010	.050	.275	52
	88312	—	—	20/12	26 x 34	8.6	.010	.050	.362	94
	88319	—	—	20/19	26 x 34	8.6	.010	.060	.453	148
	88325	—	—	20/25	26 x 34	7.3	.010	.060	.507	175
	88333	—	—	20/33	26 x 34	7.3	.010	.065	.541	226
	88347	—	—	20/47	26 x 34	6.1	.010	.070	.663	335
	88365	—	—	20/65	26 x 34	6.1	.010	.100	.820	515

NOTES: (1) Maximum allowable current per conductor when one conductor is utilized as ground or neutral. Ampacities are based on an ambient temperature of 30º C with a conductor temperature of 90º C.

TYPE-TC/TYPE W POWER CABLE

- UL Listed
- Type W – 2000 Volt
- TC-ER (Tray Cable - Exposed Run)
- 90°C
- UV Resistant



Bunch Stranded Soft Drawn Copper
Longer flex life in flexing and twisting applications.

Conductors are Color Coded
Provides fast identification of conductors. Easy to read and simplifies installation.

Live-Flex™ FREP Conductor Insulation
Flame retardant EP insulation designed for Tray Cable applications. High dielectric, tensile and mechanical properties.

Rayon Tire Cord Reinforcing
Braid embedded in jacket provides added strength. Improves cable resistance to impact, abrasion, twisting and pulling.

Heavy-Duty Security Yellow *Super-Trex*® TSE Double Pass Jacket
Provides superior first-line defense against industrial and environmental abuse. Resists tearing, abrasion, oil, impact, ozone and most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

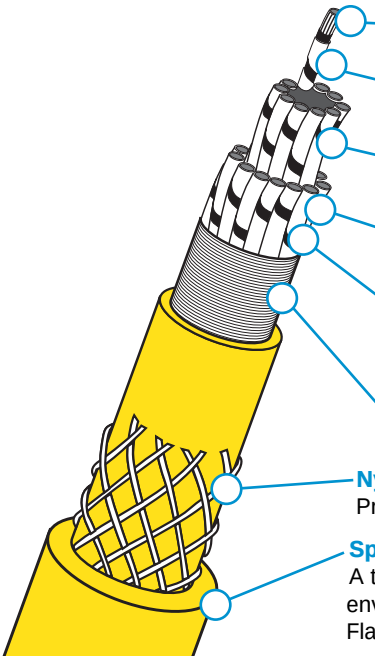
ORDERING INFORMATION

	PART NO.	CABLE SIZE AWG/COND	CONDUCTOR STRANDING	AMPACITY (1)	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'	FLAME RATING
2 COND. CSA Certified	**85404**	8/2	133 (7x19)	74	.141	.950	512	FT 1
	85406	6/2	259 (7x37)	99	.141	1.025	626	FT 4
	85407	4/2	259 (7x37)	130	.141	1.150	823	FT 4
	85408	2/2	259 (7x37)	174	.141	1.265	1094	FT 4
	85411	1/0-2	1064 (19x56)	234	.156	1.602	1766	FT 4
3 COND. CUL	**85203***	8/3	133 (7x19)	65	.141	1.00	598	FT 1
	85205	6/3	259 (7x37)	87	.141	1.080	742	FT 4
	85257	4/3	259/28	114	.141	1.225	997	FT 4
	85259	2/3	259/26	152	.141	1.34	1353	FT 4
	85255	1/0-3	1045x30	205	.141	1.70	2328	FT 4
4 & 6 COND. CUL/CSA MSHA Approved			BLACK JACKET					
	85108	4/4	259 (7 x 37)	114	.141	1.31	1229	FT 5
	85110	2/4	259 (7 x 37)	152	.141	1.46	1684	FT 5
	85204	8/4	133 (7 x 19)	65	.141	1.07	706	FT 1
	85206	6/4	259 (7 x 37)	87	.141	1.18	914	FT 4
	85208	4/4	259 (7 x 37)	114	.141	1.31	1229	FT 4
	85210	2/4	259 (7 x 37)	152	.141	1.46	1684	FT 4
	85244	2/0-4	323/.0201	237	.156	1.91	3444	FT 4
	85115	2/5	259 (7 x 37)	152	.170	1.660	2135	FT 4
	85215	6/5	259 (7 x 37)	69	.141	1.280	1077	FT 4
	85606	6/6	259 (7 x 37)	69	.141	1.39	1262	FT 4

*NOTES: (1) Ampacities are based on an ambient temperature of 30º C with a conductor temperature of 90º C. NEC 2005 Table 400.5(B) *Not TC rated.*

MULTI-CONDUCTOR P&R CABLE

- UL Type TC
- CSA Certified
- UV Resistant
- 16 AWG MSHA Approved
- Payout & Retractile (P&R) Construction
- 600 Volt
- 90°C Dry
- 75°C Wet
- FT-1
- RoHS Compliant
- WTTC



Bunch Stranded Tinned Soft Drawn Copper
Longer flex life in reeling, flexing and twisting applications. Easier to solder.

Live-Flex™ XLPE Conductor Insulation
Increases flexibility and has high dielectric, tensile and mechanical properties.

Conductors – Lower Coefficient of Friction
Longer life in reeling and flexing applications. Fewer spares needed.

Nylon Armored Inner Conductors are Coded with Alpha Numeric Identification
Provides fast identification of conductors. Easy to read and simplifies installation.

No-Wick™ Rayon-Reinforced Synthetic Filler
Adds tensile strength, improves flexibility and won't wick up liquids. Acts like a shock absorber to reduce damage from impact.

Polyester Tape Around Inner Components
Provides easy movement of the conductor bundle for longer flex life.

Nylon Reinforcing Braid Embedded Between Two-Layer Jacket
Provides added strength. Improves cable resistance to impact, abrasion, twisting and pulling.

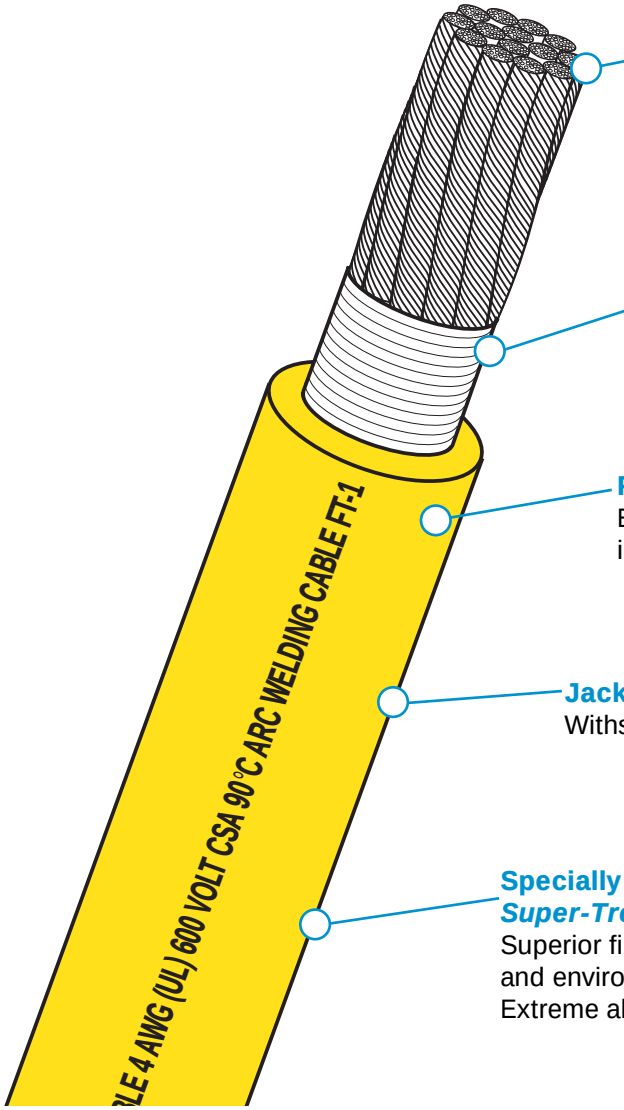
Specially Compounded, Security Yellow, *Super-Trex*® TSE Jacket
A two layer reinforced jacket provides superior first-line defense against industrial and environmental abuse. Resists tearing, abrasion, impact, oil, ozone and most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

ORDERING INFORMATION

PART NO.	CABLE SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY	JACKET THICKNESS (IN.)	NOM. O.D. (IN.)	CABLE WT. (LBS.) per 1000'
		COLOR CODED CONDUCTORS				
88820	16/6	65/34	14.4	.115	.555	168
88822	16/8	65/34	12.6	.115	.615	206
88823	16/10	65/34	9	.115	.690	255
88824	16/12	65/34	9	.135	.705	290
88825	16/16	65/34	9	.135	.750	353
88826	16/20	65/34	9	.135	.820	412
88827	16/24	65/34	8.1	.135	.885	484
88828	16/33	65/34	7.2	.155	1.030	657
88829	16/36	65/34	7.2	.155	1.050	693
88830	16/41	65/34	6.3	.155	1.090	734
88831	16/49	65/34	6.3	.155	1.170	849
		ALPHA NUMERIC BLACK CONDUCTORS				
88811	14/7	41/30	17.5	.115	.625	240
88812	14/8	41/30	17.5	.115	.660	265
88813	14/10	41/30	12.5	.115	.750	324
88814	14/12	41/30	12.5	.135	.760	379
88815	14/16	41/30	12.5	.135	.820	467
88816	14/20	41/30	12.5	.135	.890	535
88817	14/24	41/30	11.3	.135	.965	630
88800	12/6	65/30	24	.115	.655	291
88802	12/8	65/30	21	.115	.735	358
88804	12/12	65/30	15	.135	.850	515
88806	12/20	65/30	15	.135	1.000	763
88808	12/30	65/30	13.5	.155	1.190	1119
88832	10/6	105/30	32	.115	.760	382
88834	10/8	105/30	28	.115	.860	484
88836	10/12	105/30	20	.135	.990	697

600 VOLT WELDING CABLE

- UL Listed
- CSA Certified
- Rated 90°C
- Extra Hard Usage
- UV Resistant
- 600 Volt
- FT-1
- RoHS Compliant



Extra-Flex™ #34 AWG Bunch Stranded Rope Lay Copper
2-1/2 times more stranding than conventional welding cables. Reduces copper conductor fatigue and breakage. Easier to work with. High impact resistance.

100% Fabric Serve
Improves tear resistance and reduces jacket shrink-back.

Footage Indicators Marked on the Jacket
Easy, precise measuring reduces waste and improves productivity.

Jacket is 25% Thicker than Ordinary Cable
Withstands tearing, abrasion, impact and chunking.

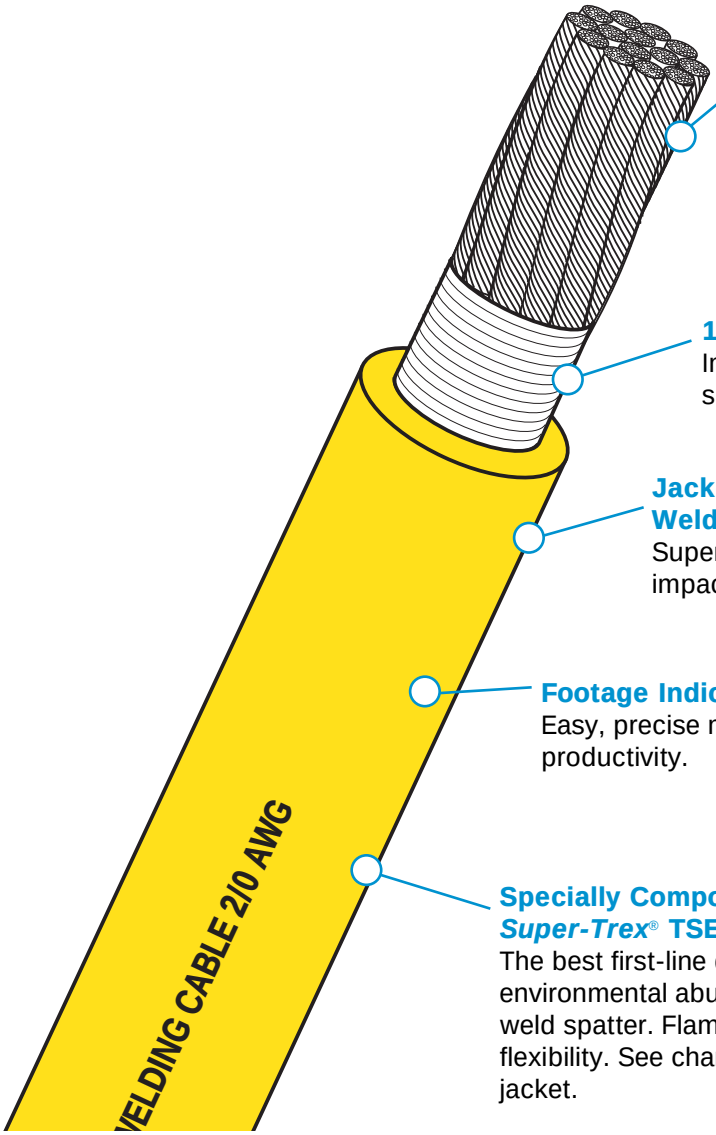
Specially Compounded, Security Yellow, *Super-Trex*® TSE Jacket Rated 600 Volt
Superior first-line defense against all types of industrial and environmental abuse. Flame and heat resistant. Extreme all-weather flexibility.

ORDERING INFORMATION

PART NO.	CABLE SIZE (AWG)	CONDUCTOR STRANDING	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
86310	6	660 x 34	.080	.370	132
86311	4	1045 x 34	.093	.450	202
86312	2	1650 x 34	.103	.540	305
86314	1/0	2640 x 34	.115	.620	416
86315	2/0	3300 x 34	.115	.700	558
86317	4/0	5225 x 34	.158	.900	906

YELLOW, RED OR BLACK DC WELDING CABLE

- CSA Certified
- 90°C
- Extra Hard Usage
- Extra Flexible
- UV Resistant
- FT-1
- RoHS Compliant
- 150 Volts Max.



Extra-Flex™ #34 AWG Soft Drawn Bunch Stranded Rope Lay Copper
2-1/2 times more stranding than conventional welding cables. Reduces copper conductor fatigue and breakage. Easier to work with. High impact resistance.

100% Fabric Serve
Improves tear resistance and reduces jacket shrinkage.

Jacket is 25% Thicker Than Ordinary Welding Cable
Superior resistance to tearing, abrasion and impact.

Footage Indicators Marked on the Jacket
Easy, precise measuring reduces waste, improves productivity.

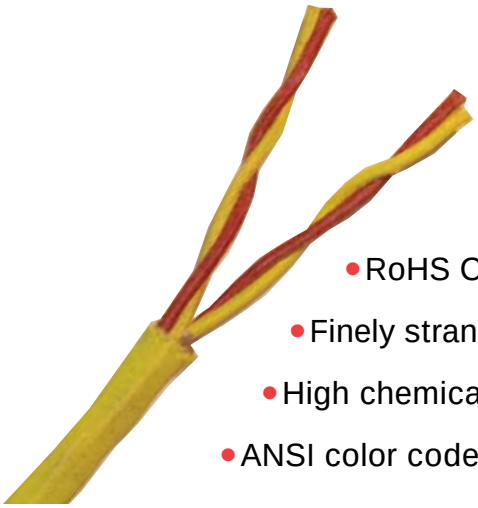
Specially Compounded, Security Yellow *Super-Trex*® TSE Jacket
The best first-line defense against all types of industrial and environmental abuse. Resists oil, ozone, most chemicals and weld spatter. Flame and heat resistant. Extreme all-weather flexibility. See chart below for sizes available with red or black jacket.

ORDERING INFORMATION

PART NO.			CABLE SIZE	CONDUCTOR STRANDING	AMPACITY	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
YELLOW	RED	BLACK	(AWG)		(1)			
86301	—	—	4	1045 x 34	150	.093	.450	209
86302	86302R	86302BK	2	1650 x 34	200	.103	.540	318
86303	—	—	1	2090 x 34	250	.103	.580	379
86304	—	—	1/0	2640 x 34	350	.120	.660	484
86305	86305R	86305BK	2/0	3300 x 34	450	.115	.700	579
86306	—	—	3/0	4256 x 34	550	.140	.800	709
86307	—	—	4/0	5225 x 34	600	.158	.900	935

NOTE: (1) Ampacity is for a low voltage intermittent welding lead. Based on 30º C ambient 90º C insulation.

THERMOCOUPLE EXTENSION WIRE



- RoHS Compliant
- Finely stranded conductors improve flexibility
- High chemical resistance: FEP, PFA & TT2800
- ANSI color coded conductors & jacket

ORDERING INFORMATION

TYPE JX		TYPE KX							
PART NO.	CABLE O.D.	PART NO.	CABLE O.D.	CONFIGURATION	CONDUCTOR STRANDING	CONDUCTOR INSULATION	JACKET	WT. (LBS.) PER 1000'	AMBIENT TEMPERATURE RATING
46500	.196	**46530**	.196	22/1PR	7/30	Tefzel® 750	PUR	21	
46501	.283	**46531**	.283	22/2PR	7/30	Tefzel 750	PUR	31	
46502	.230	**46532**	.230	18/1PR	7/26	Tefzel 750	PUR	33	**90°C / 194°F**
46503	.345	**46533**	.345	18/2PR	7/26	Tefzel 750	PUR	51	
46504	.256	**46534**	.256	16/1PR	7/24	Tefzel 750	PUR	41	
46505	.392	**46535**	.392	16/2PR	7/24	Tefzel 750	PUR	62	
46506	.128	**46536**	.128	22/1PR	7/30	Tefzel 750	FEP	15	
46507	.211	**46537**	.211	22/2PR	7/30	Tefzel 750	FEP	21	
46508	.158	**46538**	.158	18/1PR	7/26	Tefzel 750	FEP	26	**150°C / 302°F**
46509	.273	**46539**	.273	18/2PR	7/26	Tefzel 750	FEP	39	
46510	.184	**46540**	.184	16/1PR	7/24	Tefzel 750	FEP	34	
46511	.324	**46541**	.324	16/2PR	7/24	Tefzel 750	FEP	54	
46512	.124	**46542**	.124	22/1PR	7/30	PFA	PFA	16	
46513	.211	**46543**	.211	22/2PR	7/30	PFA	PFA	21	
46514	.158	**46544**	.158	18/1PR	7/26	PFA	PFA	27	**250°C / 482°F**
46515	.273	**46545**	.273	18/2PR	7/26	PFA	PFA	40	
46516	.184	**46546**	.184	16/1PR	7/24	PFA	PFA	35	
46517	.324	**46547**	.324	16/2PR	7/24	PFA	PFA	54	
46518	.240	**46548**	.240	22/1PR	7/30	Mica	TT2000	29.1	
46519	.344	**46549**	.344	22/2PR	7/30	Mica	TT2000	54.4	
46520	.259	**46550**	.259	18/1PR	7/26	Mica	TT2000	39.1	**450°C / 842°F**
46521	.389	**46551**	.389	18/2PR	7/26	Mica	TT2000	75.9	
46522	.285	**46552**	.285	16/1PR	7/24	Mica	TT2000	47.4	
46523	.457	**46553**	.457	16/2PR	7/24	Mica	TT2000	89.8	
46524	.273	**46554**	.273	22/1PR	7/30	Mica/TFE/Glass	TT2800	38.2	
46525	.417	**46555**	.417	22/2PR	7/30	Mica/TFE/Glass	TT2800	76.5	
46526	.298	**46556**	.298	18/1PR	7/26	Mica/TFE/Glass	TT2800	51.4	**530°C / 986°F**
46527	.460	**46557**	.460	18/2PR	7/26	Mica/TFE/Glass	TT2800	100.7	
46528	.320	**46558**	.320	16/1PR	7/24	Mica/TFE/Glass	TT2800	59.1	
46529	.530	**46559**	.530	16/2PR	7/24	Mica/TFE/Glass	TT2800	116.4	

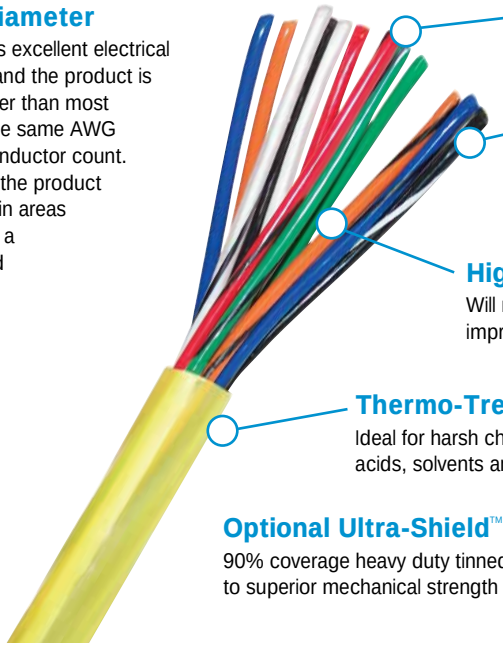
Additional thermocouple types and paired configurations available. Shielding also available.
Call your Sales Representative for price and delivery.

CHEM-GARD™ 200

- UL Recognized
- 600 Volt
- CSA Approved
- 200°C/392°F
- FT1 – CSA Flame Test
- VW1 – UL Flame Test
- Rated to -60°C
- Both Chem-Gard 200 & 150 are RoHS Compliant

Small Diameter

Teflon offers excellent electrical properties and the product is much smaller than most cables of the same AWG size and conductor count. This allows the product to be used in areas that require a tighter bend radius.



Finely Stranded Nickel Plated Copper Conductors

For improved flexibility in dynamic applications and protection from corrosion and oxidation in chemical and high temperature environments.

Tefzel® 750 Conductor Insulation

Extremely chemical resistant and mechanically durable for additional protection against cutting, abrasion and chemicals. Conductors slide easily within jacket for maximum flex life.

High Temperature Teflon Fillers

Will not wick up contaminants into cable. Allows conductors to move freely within jacket for improved flexibility in dynamic applications.

Thermo-Trex FEP Teflon® Jacket

Ideal for harsh chemical environments. Excellent defense against cutting and abrasion. Resistant to oils, acids, solvents and chemicals. Designed for continuous temperature environments up to 200°C (392°F).

Optional Ultra-Shield™ Construction

90% coverage heavy duty tinned copper braid shielding provides protection from EM and RF interference in addition to superior mechanical strength in abusive environments.

ORDERING INFORMATION

UNSHIELDED High Temp Non-Shielded Braid – 200°C *(Additional configurations available)*

	Part No.	Configuration AWG/Cond.	Stranding (Strands/AWG)	Braid Shield	Conductor	Insulation	Cable OD	Ampacity[1]	Drain Wire	Wt. (LBS.) per 1,000'
Multi-Conductor	42604	16/4	65/34	None	Nickel	Tefzel 750	.230	26.0	None	59
	42612	16/12	65/34	None	Nickel	Tefzel 750	.370	16.0	None	152
	42404	14/4	105/34	None	Nickel	Tefzel 750	.270	43.0	None	86.5
	42204	12/4	65/30	None	Nickel	Tefzel 750	.345	54.0	None	133.5
Single Conductor Single Conductor Product Available in Black, White, Red or Green	42881	18 BLACK	41/34	None	Nickel	Tefzel 750	.068	24.0	None	6.8
	42882	18 WHITE	41/34	None	Nickel	Tefzel 750	.068	24.0	None	6.8
	42883	18 RED	41/34	None	Nickel	Tefzel 750	.068	24.0	None	6.8
	42884	18 GREEN	41/34	None	Nickel	Tefzel 750	.068	24.0	None	6.8
	42661	16 BLACK	65/34	None	Nickel	Tefzel 750	.078	32.0	None	10.4
	42662	16 WHITE	65/34	None	Nickel	Tefzel 750	.078	32.0	None	10.4
	42663	16 RED	65/34	None	Nickel	Tefzel 750	.078	32.0	None	10.4
	42664	16 GREEN	65/34	None	Nickel	Tefzel 750	.078	32.0	None	10.4
	42441	14 BLACK	105/34	None	Nickel	Tefzel 750	.094	54.0	None	15.5
	42442	14 WHITE	105/34	None	Nickel	Tefzel 750	.094	54.0	None	15.5
	42443	14 RED	105/34	None	Nickel	Tefzel 750	.094	54.0	None	15.5
	42444	14 GREEN	105/34	None	Nickel	Tefzel 750	.094	54.0	None	15.5
	42221	12 BLACK	65/30	None	Nickel	Tefzel 750	.124	68.0	None	24.6
	42222	12 WHITE	65/30	None	Nickel	Tefzel 750	.124	68.0	None	24.6
	42223	12 RED	65/30	None	Nickel	Tefzel 750	.124	68.0	None	24.6
	42224	12 GREEN	65/30	None	Nickel	Tefzel 750	.124	68.0	None	24.6

SHIELDED High Temp Shielded Braid – 200°C *(Additional configurations available)*

Part No.	Configuration AWG/Cond.	Stranding (Strands/AWG)	Braid Shield	Conductor	Insulation	Cable OD	Ampacity[1]	Drain Wire	Wt. (LBS.) per 1,000'
42061	16/4	65/34	Nickel	Nickel	Tefzel 750	.245	26.0	20AWG	77
42063	12/4	65/30	Nickel	Nickel	Tefzel 750	.370	52.0	20AWG	154
42065	16/12	65/34	Nickel	Nickel	Tefzel 750	.385	16.0	20AWG	176

[1]Ampacities are based on conductors in free air, 40°C (104°F) ambient, 200°C (392°) conductor temperature.

CHEM-GARD™ 150

ORDERING INFORMATION

UNSHIELDED Non-Shielded Configurations – 150°C *(Additional configurations available)*

Part No.	Configuration AWG/Cond.	Stranding (Strands/AWG)	Braid Shield	Conductor	Insulation	Cable OD	Ampacity[2]	Drain Wire	Wt. (LBS.) per 1,000'
42126	16/4	65/34	None	Tinned	Tefzel 750	.225	21.0	None	59
42128	12/4	65/30	None	Tinned	Tefzel 750	.335	48.0	None	128
42130	16/12	65/34	None	Tinned	Tefzel 750	.365	13.0	None	150

SHIELDED Shielded Configurations – 150°C *(Additional configurations available)*

Part No.	Configuration AWG/Cond.	Stranding (Strands/AWG)	Braid Shield	Conductor	Insulation	Cable OD	Ampacity[2]	Drain Wire	Wt. (LBS.) per 1,000'
42114	18/3	65/36	Tinned	Tinned	Tefzel 750	.205	16.0	20AWG	35.5
42116	16/4	65/34	Tinned	Tinned	Tefzel 750	.245	21.0	20AWG	77
42118	12/4	65/30	Tinned	Tinned	Tefzel 750	.370	48.0	20AWG	154
42120	16/12	65/34	Tinned	Tinned	Tefzel 750	.385	13.0	20AWG	176

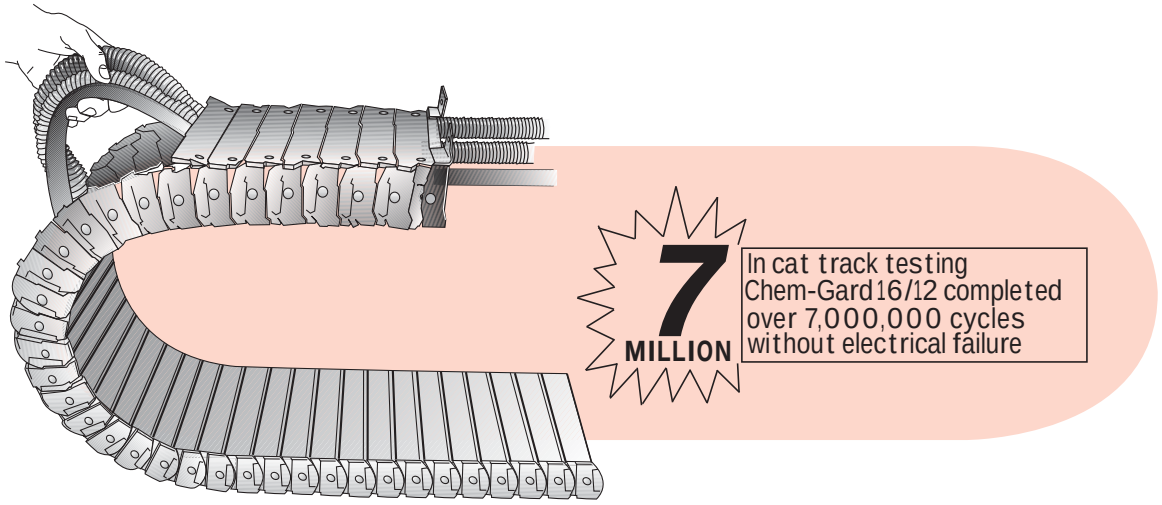
[2]Ampacities are based on conductors in free air, 40°C (104°F) ambient, 150°C (302°) conductor temperature.

CONDUCTOR COLOR CODES

1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White

CHEMICAL RESISTANCE

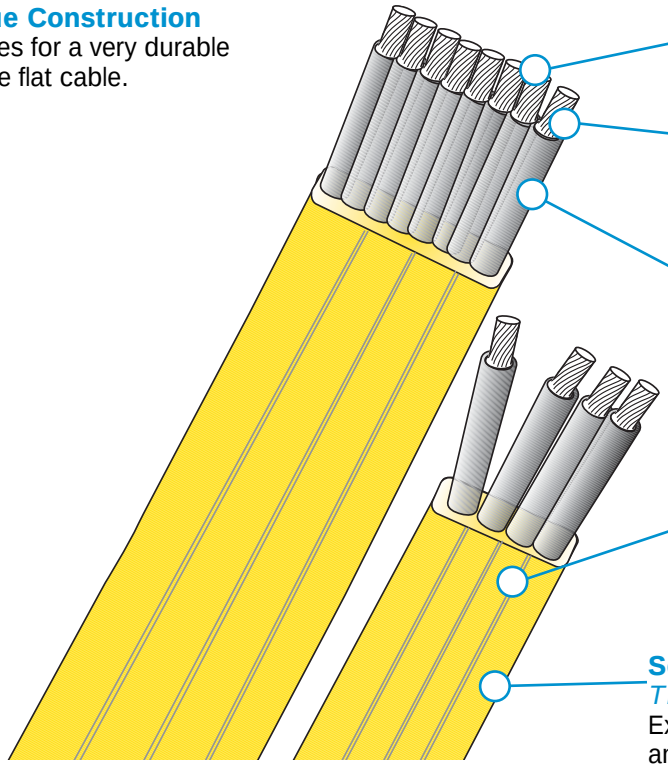
	Tefzel 750	FEP
Oxidation Resistance	Excellent	Excellent
Oil	Excellent	Excellent
UV Rays	Excellent	Excellent
Water	Excellent	Excellent
Acid	Excellent	Excellent
Alkali	Excellent	Excellent
Gasoline/Kerosene	Excellent	Excellent
Benzol Toluene	Excellent	Excellent
Degreaser Solvent	Excellent	Excellent
Alcohol	Excellent	Excellent



FLAT FESTOON CABLE

• 600 Volt • 90° C • RoHS Compliant

Unique Construction
Provides for a very durable long life flat cable.



Tinned Conductors
Resists corrosion. Easier to solder.

Finely Stranded Tinned Conductors
Improves flexibility and extends conductor life.

Tefzel® 750 Insulation
Offers superior resistance to oil, solvents and chemicals. Provides high dielectric capability, mechanical strength and cut resistance.

Cut Grooves
Easier to strip and terminate.

Security Yellow Heavy-Duty *Trex-Onics®* Polyurethane TPE Jacket
Excellent defense against cutting, abrasion, oil and chemicals.

ORDERING INFORMATION

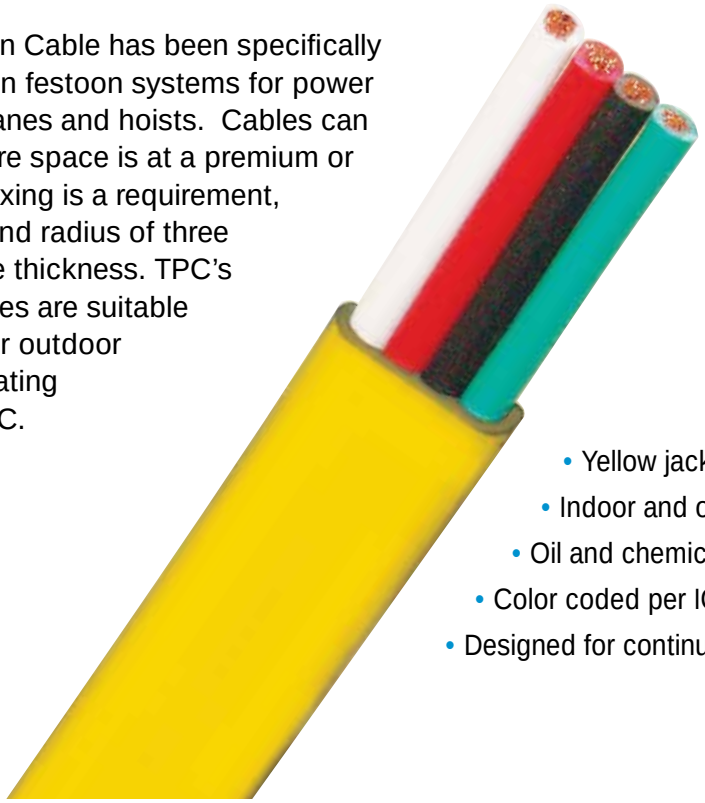
PART NO.	CORD SIZE AWG/COND	CONDUCTOR STRANDING	INSULATION THICKNESS (IN.)	AMPACITY*	DIMENSIONAL DATA	COLOR CODE	WT. (LBS.) PER 1000'
61114	16/4	65/34	.015"	16	.19" x .485"	Black, Red, Blue, Orange	94
61118	16/8	65/34	.015"	15	.19" x .87"	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black	130
61112	16/12	65/34	.015"	14	.19" x 1.255"	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black, Brown/Black, Black/Red	198
61148	14/8	105/34	.015"	20	.204" x .982"	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black	206
61142	14/12	105/34	.015"	17	.204" x 1.423"	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black, Brown/Black, Black/Red	287
61124	12/4	65/30	.015"	30	.22" x .60"	Black, Red, Blue, Orange	112
61104	10/4c	105/30	.018"	41	.246" x .709"	Black, Red, Blue, Orange	210
61164	6/4	266/30	.022"	72	.350" x 1.13"	Black, Red, Blue, Orange	462

*Ampacities calculated at 30° C ambient and 90° C conductor temperature

FLAT FESTOON CABLE

• 600 Volt • Oil and Sunlight Resistant • 105˚C Rated

TPC's Flat Festoon Cable has been specifically designed for use in festoon systems for power and control on cranes and hoists. Cables can also be used where space is at a premium or where extreme flexing is a requirement, recommended bend radius of three to five times cable thickness. TPC's Flat Festoon Cables are suitable for either indoor or outdoor applications operating at -40° C to 105° C.



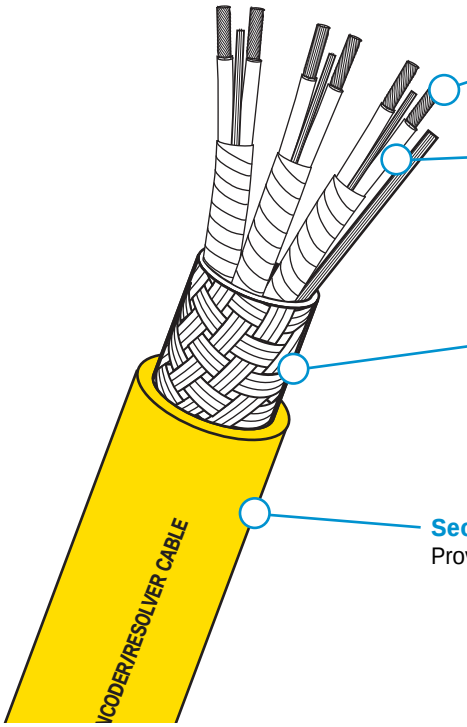
- Yellow jacketed
- Indoor and outdoor rated
- Oil and chemical resistant
- Color coded per ICEA method 1
- Designed for continuous flexing applications

ORDERING INFORMATION

PART NO.	SIZE AWG/COND.	BUNCH STRANDING	VOLTS	CABLE DIM. THICKNESS x WIDTH(IN.)	WT. (LBS.) PER 1000'
61918	16/8c	65/34	600	.20 x 1.110	192
61912	16/12c	65/34	600	.20 x 1.605	286
61944	14/4c	41/30	600	.217 x .730	142
61948	14/8c	41/30	600	.217 x 1.22	252
61942	14/12c	41/30	600	.217 x 1.81	375
61924	12/4c	65/30	600	.236 x .71	174
61928	12/8c	65/30	600	.236 x 1.650	383
61904	10/4c	105/30	600	.276 x .820	254
61984	8/4c	168/30	600	.36 x 1.15	438
61964	6/4c	266/30	600	.43 x 1.45	679
61994	4/4c	420/30	600	.49 x 1.67	959

300 VOLT INDIVIDUALLY SHIELDED ENCODER/RESOLVER CABLE

UL Recognized 90°C • CSA Certified 80°C • 300 Volt • RoHS Compliant



Finely Stranded Tinned Copper Conductors
Improves flexibility and extends conductor life.

Tefzel® 750 Insulation on Individual Conductors
Offers superior resistance to oil, solvents and chemicals. Provides high dielectric capability, mechanical strength and cut resistance.

Heavy Duty Combination of Tinned Copper Braid and Aluminum/Polyester Foil Shield
Shielding combination provides 100% protection from EM and RF interference. Finely stranded braid provides superior flexibility and mechanical strength.

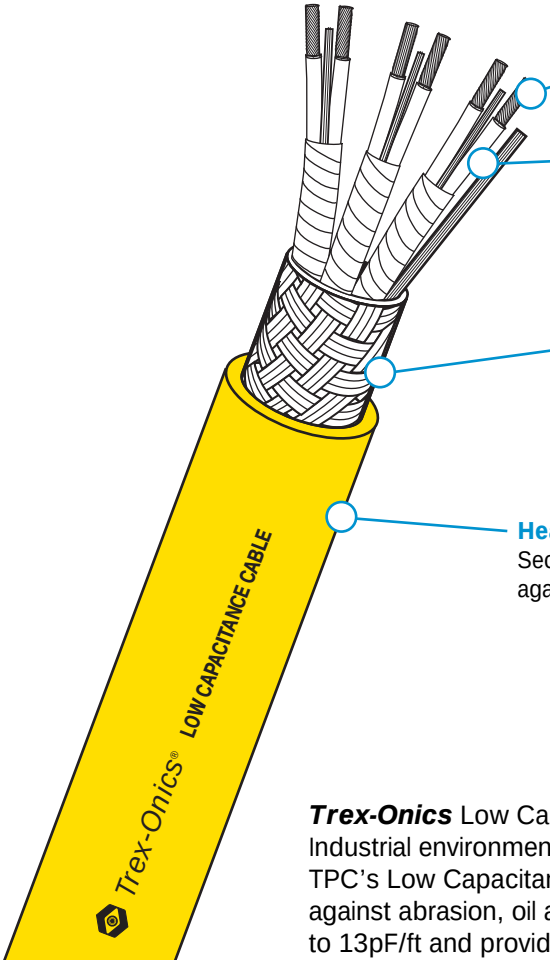
Security Yellow Heavy Duty Polyurethane Jacket
Provides excellent protection against cutting, abrasion, oil and chemicals.

ORDERING INFORMATION

Part No.	Cond Size (AWG)/ No. of Pairs	Conductor Stranding	Ampacity*	Insulation Thickness (IN.)	Ind. Pairs Drain Wire	Overall Drain Wire	Jacket Thickness (IN.)	Nom. Dia. (IN.)	Wt. (LBS.) per 1000 ft.
68602	20/2	19/32	13.5	0.006	22 AWG	22 AWG	0.045	0.305	53
68603	20/3	19/32	10.8	0.006	22 AWG	22 AWG	0.045	0.315	66
68604	20/4	19/32	9.5	0.006	22 AWG	22 AWG	0.045	0.350	83
68606	20/6	19/32	6.7	0.006	22 AWG	22 AWG	0.045	0.410	117
68607	20/7	19/32	6.7	0.006	22 AWG	22 AWG	0.045	0.410	125
68609	20/9	19/32	6	0.006	22 AWG	22 AWG	0.045	0.500	189
68702	22/2	19/34	11	0.006	24 AWG	24 AWG	0.045	0.275	43
68703	22/3	19/34	9	0.006	24 AWG	24 AWG	0.045	0.300	52
68704	22/4	19/34	8	0.006	24 AWG	24 AWG	0.045	0.315	62
68706	22/6	19/34	8	0.006	24 AWG	24 AWG	0.045	0.370	86
68707	22/7	19/34	6	0.006	24 AWG	24 AWG	0.045	0.370	92
68709	22/9	19/34	6	0.006	24 AWG	24 AWG	0.045	0.450	138
68802	24/2	19/36	8	0.006	26 AWG	26 AWG	0.045	0.275	33
68803	24/3	19/36	7	0.006	26 AWG	26 AWG	0.045	0.265	42
68804	24/4	19/36	6	0.006	26 AWG	26 AWG	0.045	0.300	48
68806	24/6	19/36	6	0.006	26 AWG	26 AWG	0.045	0.330	64
68807	24/7	19/36	4	0.006	26 AWG	26 AWG	0.045	0.330	68
68809	24/9	19/36	4	0.006	26 AWG	26 AWG	0.045	0.400	97

COMMUNICATION/INSTRUMENTATION
LOW CAPACITANCE CABLE

UL Recognized 80˚C • 300 Volt • RoHS Compliant



Finely Stranded Bare Copper Conductors
Finely stranded copper conductors improves flexibility. The bare copper conductor offers maximum conductivity.

Foam Insulation on Individual Conductors
Foam polyethylene insulation on individual conductors provides a low dielectric constant to maintain a low-capacitance value between conductors.

Heavy Duty Combination of Tinned Copper Braid and Aluminum/Polyester Foil Shield
Combination of tinned copper braid and aluminum/polyester foil provides 100% shielding protection from EM and RF interference. Finely stranded braid provides superior flexibility and mechanical strength.

Heavy Duty Polyurethane Jacket
Security yellow heavy-duty polyurethane jacket provides excellent protection against cutting, abrasion, oil and chemicals.

Trex-Onics Low Capacitance Cable has been designed for use in Heavy Duty Industrial environments where a superior Low Capacitance Cable design is required. TPC's Low Capacitance Cable has been designed to provide superior protection against abrasion, oil and chemicals. The cable is also designed to limit capacitance to 13pF/ft and provide 100% shielding protection from EMI and RF interference.

ORDERING INFORMATION

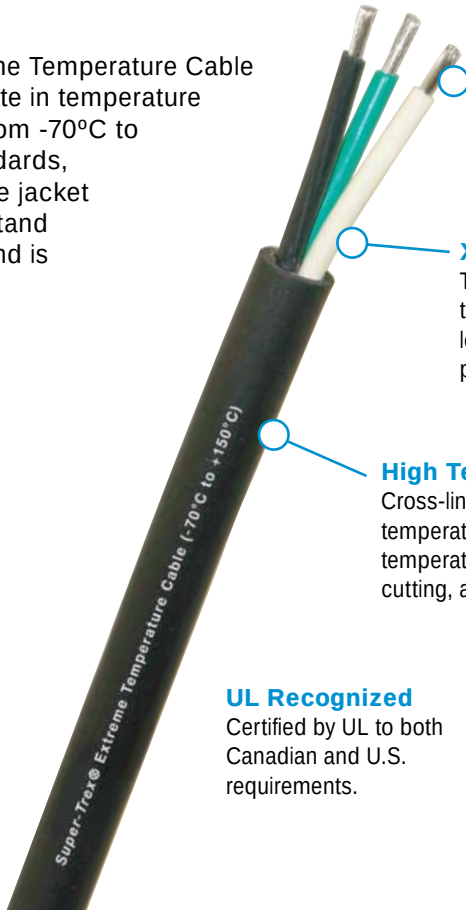
Part No.	Cable AWG/No. Pairs	Conductor Stranding	Ampacity*	Insulation Thickness (IN.)	Ind. Pairs Drain Wire	Overall Drain Wire	Jacket Thickness (IN.)	Nom. Dia. (IN.)	Wt. (LBS.) per 1000 ft.
68902	24/2	19/36	1.6	0.028	26 AWG	26 AWG	0.035	0.364	64
68903	24/3	19/36	1.4	0.028	26 AWG	26 AWG	0.035	0.386	72
68904	24/4	19/36	1.4	0.028	26 AWG	26 AWG	0.035	0.428	91
68906	24/6	19/36	1.4	0.028	26 AWG	26 AWG	0.035	0.509	118
68909**	24/9	19/36	1.0	0.028	26 AWG	26 AWG	0.035	0.639	164
68912**	24/12	19/36	1.0	0.028	26 AWG	26 AWG	0.035	0.639	175

*Based on 20°C ambient, 80°C Conductor Temperature, single cable in open air.
**Call for availability

EXTREME TEMPERATURE CABLE *(-70ºC to + 150ºC)*

c UL us • 1000V Rated • RoHS Compliant • FT1 Flame Rating

Super-Trex Extreme Temperature Cable is designed to operate in temperature extremes ranging from -70ºC to 150ºC per ISO standards, (UL/cUL 105ºC). The jacket is designed to withstand mechanical abuse and is resistant to UV light, water, oil and chemicals.



Stranded Tinned Copper Conductors
Stranded tinned copper conductors resist corrosion, improves flexibility and helps reduce conductor fatigue and breakage in flexing applications.

XLPO Insulation on Individual Conductors
The temperature rating of the insulation is matched to the jacket to provide maximum protection in high and low temperatures applications. The heavy duty design provides extra cut through protection.

High Temperature XLPO Jacket
Cross-linked polyolefin jacket protects the cable from high temperature operation and remains flexible at extreme cold temperatures. The heavy duty jacket provides protection from cutting, abrasion, water, oils, chemicals and is UV resistant.

UL Recognized
Certified by UL to both Canadian and U.S. requirements.

CONDUCTOR	COLOR
1	White
2	Black
3	Green
4	Red

ORDERING INFORMATION

Part No.	Cable Size AWG/Cond.	Conductor Stranding	Ampacity*	Nom. Dia. (IN.)	Jacket Thickness (IN.)	Wt. (LBS.) per 1000 ft.
87840	14/3	41/30	34	0.426	.065	106
87841	14/4	41/30	27	0.460	.065	130
87835	12/3	65/30	43	0.465	.065	141
87836	12/4	65/30	34	0.503	.065	172
87830	10/3	105/30	55	0.492	.065	192
87831	10/4	105/30	44	0.536	.065	238
87825**	8/3	168/30	76	0.685	.060	306
87826**	8/4	168/30	61	0.790	.080	482
87820**	6/3	259/30	96	0.814	.080	448
87821**	6/4	259/30	77	0.889	.080	593
87815**	4/3	413/30	120	0.933	.080	653
87816**	4/4	413/30	96	1.022	.080	871
87810**	2/3	665/30	160	1.074	.080	991
87811**	2/4	665/30	128	1.179	.080	1328

*Ambient temperature rating of 40º C, 150º C conductor temperature. Based on at least 3 current carrying conductors. Reference Table 310.18 of the NEC.
**Call for availability

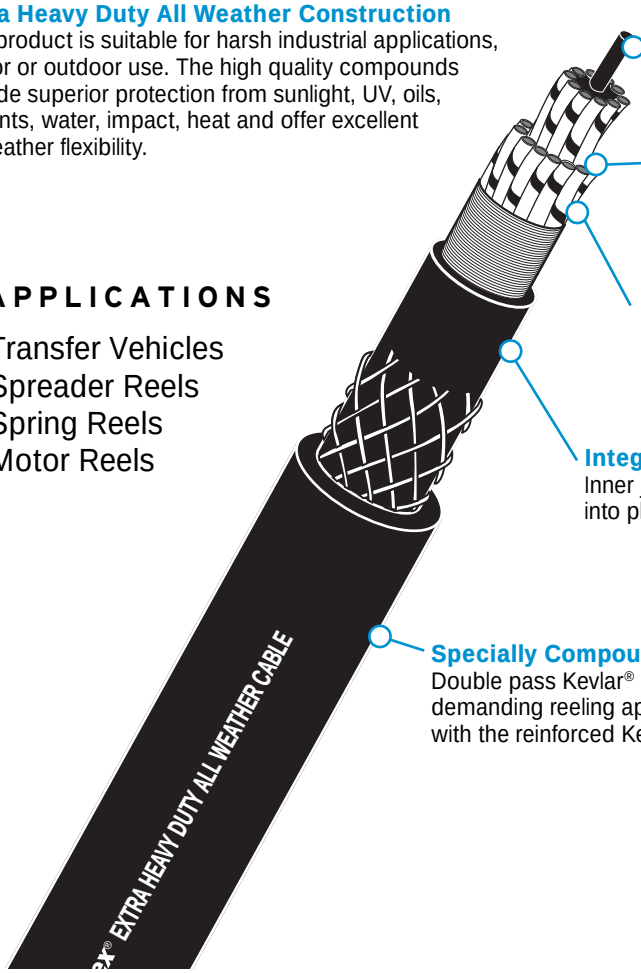
EXTRA HEAVY DUTY ALL WEATHER REELING CABLE

- **Extra Heavy Duty**
- **Kevlar Reinforced**
- **-40˚ to 90˚C Dry**
- **600 Volt**
- **Designed for Harsh Industrial Applications**
- **All Weather Usage**

Extra Heavy Duty All Weather Construction
This product is suitable for harsh industrial applications, indoor or outdoor use. The high quality compounds provide superior protection from sunlight, UV, oils, solvents, water, impact, heat and offer excellent all weather flexibility.

APPLICATIONS

- Transfer Vehicles
- Spreader Reels
- Spring Reels
- Motor Reels



Central Strength Member
Rubber insulated Kevlar strength member provided additional overall strength to the cable, reduces stress on conductors.

Flexible Tinned Copper Conductors
Provide longer flex life in reeling applications, tinned copper conductors resist corrosion and are easy to solder.

Flexible Heat and Moisture Resistant Insulation
Provides protection to the individual conductors while allowing them to remain flexible, provides long flex life in heavy duty reeling applications.

Integral Fill Design
Inner jacket compound fills interstices of cable and locks conductors into place preventing corkscrewing and premature cable failure.

Specially Compounded *Super-Trex*® TSE™ Jacket
Double pass Kevlar® reinforced jacket provides superior tensile strength in the most demanding reeling applications. The combination of a center Kevlar strength member with the reinforced Kevlar jacket provides 6,000 pounds of break strength.

Color Code
BLACK conductor insulation with white alpha-numeric print and one **GREEN** ground

ORDERING INFORMATION

PART NO.	CABLE SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY (1)	JACKET THICKNESS (IN.)	INSULATION THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
88847	14/24	19 x 27	11	.120	.030	1.135	836
88857	12/24	19 x 25	13	.120	.030	1.278	1296
88867	10/24	37 x 26	18	.120	.030	1.352	1503
88842	14/12	19 x 27	12	.120	.033	0.930	704
88852	12/12	19 x 25	15	.120	.033	0.982	939
88862	10/12	37 x 26	20	.120	.033	1.114	704
88879	12/30	19 x 25	13	.260	.030	1.75	2175
88859	2.5mm² x 44	50 x 30	9	.120	.030	1.55	1849

(1) Ampacity is based on NEC Table 310.16 and derated 50% for 12 conductors (further derating will be required for multiple layers on reel)

TOOLS

A variety of tools to cut, strip and prepare cable of all sizes.

Wire Stripper

Part No. **Y510B**
For cable O.D. from .0395” to .1260”

Cable Cutter

Part No. **PVC100**
For cable O.D. from .25” to .75”

Heavy Duty Cable Stripper

Part No. **91470**
For cable O.D. from .25” to 2.25”

Large Cable Stripper

Part No. **91200**
For cable O.D. from .75” to 1.25”

Small Cable Stripper

Part No. **91100**
For cable O.D. from .25” to .75”

Rotary Cable Stripper

Part No. **91300**
For cable O.D. up to .5”

Cable Strippers

Available in two sizes:

Part No. **91400**
For cable O.D. from .25” to .675”

Part No. **91450**
For cable O.D. from .375” to .875”

USA **800-521-7935**
FAX **216-525-4392**
TOLL FREE MEXICO **001-800-290-5614**
TOLL FREE PERU **0800-53931-800-290-5614**
TOLL FREE CHILE **1230-020-5842**
TOLL FREE COLUMBIA **009-0-1-800-915-6832**
ONLINE **www.tpcwire.com**

TPC WIRE & CABLE CORP.
A Premier Farnell Company

7061 E. PLEASANT VALLEY RD.
INDEPENDENCE, OHIO 44131