

Multi-Conductor Boat Cable

Round and Flat Triplex Boat Cable

Polar Wire's exclusive UL Listed premium multi-conductor **Boat Cable** is designed for outstanding performance and corrosion protection in harsh marine environments.

100% copper Class K stranding provides exceptional flexibility, eases installation and reduces fatigue from vibration and flexing.

Features

- UL listed Tinned Copper Boat Cable
- 10, 12, 14, and 16 AWG **Triplex** with black, white, and green conductor colors
- 6, 8, 10, 12, 14, 16, and 18 AWG **DC Duplex** with red/black or red/yellow conductors
- Ultra-flexible Class K fine stranding
- Tinned for protection against corrosion and electrolysis
- Designed specifically for easier handling and installation in cramped spaces
- Opt for round cable for best all-direction bending ability, or choose the space saving flat profile for tight spaces and stacking
- Flat profile is constructed without fillers to facilitate jacket removal and wire stripping
- Resists saltwater, oil and gasoline, heat, sunlight, abrasion
- 600 volts up to 221°F (105°C) dry, 167°F (75°C) wet
- Flexible in cold conditions
- Manufactured by Polar Wire in the USA



Marine grade **Triplex Boat Cable** is configured in round and flat profiles with black, white, and green conductors and white TPE outer jacket. 100% copper Class K fine stranded conductors are ultra flexible and tinned for maximum corrosion resistance and long performance. Construction meets and exceeds UL 1426, CSA, and ABYC standards.

Rated for 600 volts, 105°C dry, 75°C wet. Durable jackets resist salt water, oil, gas, sunlight, heat, and abrasion.



Typical Legend

POLAR WIRE BOAT CABLE E321438 (UL) 10 AWG 3/COND VW-1 600V 105C DRY 75C WET OIL RESISTANT BC5W2 MADE IN USA RoHS COMPLIANT — CSA TEW 105C OR AWM I A/B 105C 600V FT1 265576

Flat Black/White/Green Triplex

Part Number 100' Spool	Part Number 500' Spool	Conductor AWG/Qty
BLACK, WHITE, AND GREEN CONDUCTORS		
BCF163-100	BCF163-500	16/3
BCF143-100	BCF143-500	14/3
BCF123-100	BCF123-500	12/3
BCF103-100	BCF103-500	10/3



10 AWG FLAT

Round Black/White/Green Triplex

Part Number 100' Spool	Part Number 500' Spool	Conductor AWG/Qty
BLACK, WHITE, AND GREEN CONDUCTORS		
BCR163-100	BCR163-500	16/3
BCR143-100	BCR143-500	14/3
BCR123-100	BCR123-500	12/3
BCR103-100	BCR103-500	10/3



10 AWG ROUND



TO 105°C DRY, 75°C WET



Round and Flat DC Duplex Boat Cable

Marine grade **DC Duplex Boat Cable** is constructed with 100% copper ultra flexible Class K fine stranding, tinned for maximum corrosion resistance and long performance. **DC Duplex** is configured in flat and round profiles with ABYC recommended red insulated (DC positive) and yellow insulated (DC negative) conductors, or in flat profile with red and black conductors. White TPE outer jacket. Construction meets and exceeds UL 1426, CSA, and ABYC standards.

Rated 600 volts, 105°C dry, 75°C wet. Resists vibration and flexing fatigue, oil, gas, salt water, sun, heat, and abrasion. Manufactured in the USA by Polar Wire.

Typical Legend

POLAR WIRE BOAT CABLE E321438
(UL) 8 AWG 2/COND VW-1 600V 105C
DRY 75C WET OIL RESISTANT BC5W2
MADE IN USA RoHS COMPLIANT —
CSA TEW 105C OR AWM
I A/B 105C 600V
FT1 265576



Flat Red/Black DC Duplex

Part Number 100' Spool	Part Number 500' Spool	Conductor AWG/Qty
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RED AND BLACK CONDUCTORS

BCF182RB-100	BCF182RB-500	18/2
BCF162RB-100	BCF162RB-500	16/2
BCF142RB-100	BCF142RB-500	14/2
BCF122RB-100	BCF122RB-500	12/2
BCF102RB-100	BCF102RB-500	10/2
BCF82RB-100	-	8/2
BCF62RB-100	-	6/2



8 AWG FLAT

Flat Safety Yellow/Red DC Duplex

Part Number 100' Spool	Part Number 500' Spool	Conductor AWG/Qty
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YELLOW AND RED CONDUCTORS

BCF182YR-100	BCF182YR-500	18/2
BCF162YR-100	BCF162YR-500	16/2
BCF142YR-100	BCF142YR-500	14/2
BCF122YR-100	BCF122YR-500	12/2
BCF102YR-100	BCF102YR-500	10/2
BCF82YR-100	-	8/2
BCF62YR-100	-	6/2



10 AWG FLAT

Round Safety Yellow/Red DC Duplex

Part Number 100' Spool	Part Number 500' Spool	Conductor AWG/Qty
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YELLOW AND RED CONDUCTORS

BCR182YR-100	BCR182YR-500	18/2
BCR162YR-100	BCR162YR-500	16/2
BCR142YR-100	BCR142YR-500	14/2
BCR122YR-100	BCR122YR-500	12/2
BCR102YR-100	BCR102YR-500	10/2



10 AWG ROUND

 TO 105°C DRY, 75°C WET



Arctic Ultraflex Blue® Twin and Multi-Conductor Trailer Cable

WIRE AND CABLE

Arctic Ultraflex Blue® Twin Trailer Cable

Arctic Ultraflex Blue® Trailer Cable is manufactured exclusively by Polar Wire Products using our arctic grade jacket material that is ultra flexible, lightweight, abrasion resistant and chemical, oil, gas and water resistant. Conductors are Class K fine stranded 100% copper, tinned for corrosion resistance. Designed to perform in extreme cold weather, Polar Wire Trailer Cable stays flexible in extreme temperatures of -55° to 105°C.

Arctic Ultraflex Blue® Twin Trailer Cable features red and black tinned conductors and is available in sizes 18 through 10 AWG.

Features

- Finely stranded 100% Copper
- Tinned for corrosion resistance
- Flexible to -55°C (-67°F)
- 600 Volt rated
- Industry standard colors
- Exceeds SAE standards
- Resists acids, chemicals, oil, gas, sunlight, salt, water

Applications

- Trailer wiring
- DC power needs
- Solar panel and tracker wiring
- Renewable energy projects
- Robotics and related equipment



Typical Legend

ARCTIC ULTRAFLEX 14 AWG POWER & CONTROL TRAY CABLE TYPE TC 600V SUN RES



AUF-TC182



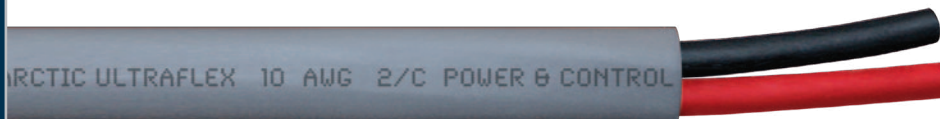
AUF-TC162



AUF-TC142



AUF-TC122



AUF-TC102



AUF-TC122

Twin Trailer

Gray outer jacket



-55°C TO 105°C

Part Number	Conductor Size	Qty	Colors
AUF-TC182	18 AWG	2	Black, Red
AUF-TC162	16 AWG	2	Black, Red
AUF-TC142	14 AWG	2	Black, Red
AUF-TC122	12 AWG	2	Black, Red
AUF-TC102	10 AWG	2	Black, Red



*Custom colors and configurations available — minimums may apply
Contact us for special orders and lead times*

Arctic Ultraflex Blue® Multi-Conductor Trailer Cable

Arctic Ultraflex Blue® Multi-Conductor Trailer Cable is made with 100% copper conductors in 4 and 7 conductor configurations. Class K fine stranded conductors are tinned to resist corrosion (AUF-TC101214-7 is bare copper).

Multi-Conductor Trailer Cable is designed for superior flexibility and long performance in extreme temperatures of -55° to 105°C. 600 Volts. Available by the foot.

Features

- Finely stranded 100% Copper
- Tinned (except AUF-TC1014-7)
- Flexible to -55°C (-67°F)
- Industry standard colors
- Exceeds SAE standards
- Resists acids, chemicals, oil and gas, sunlight, salt, water

Applications

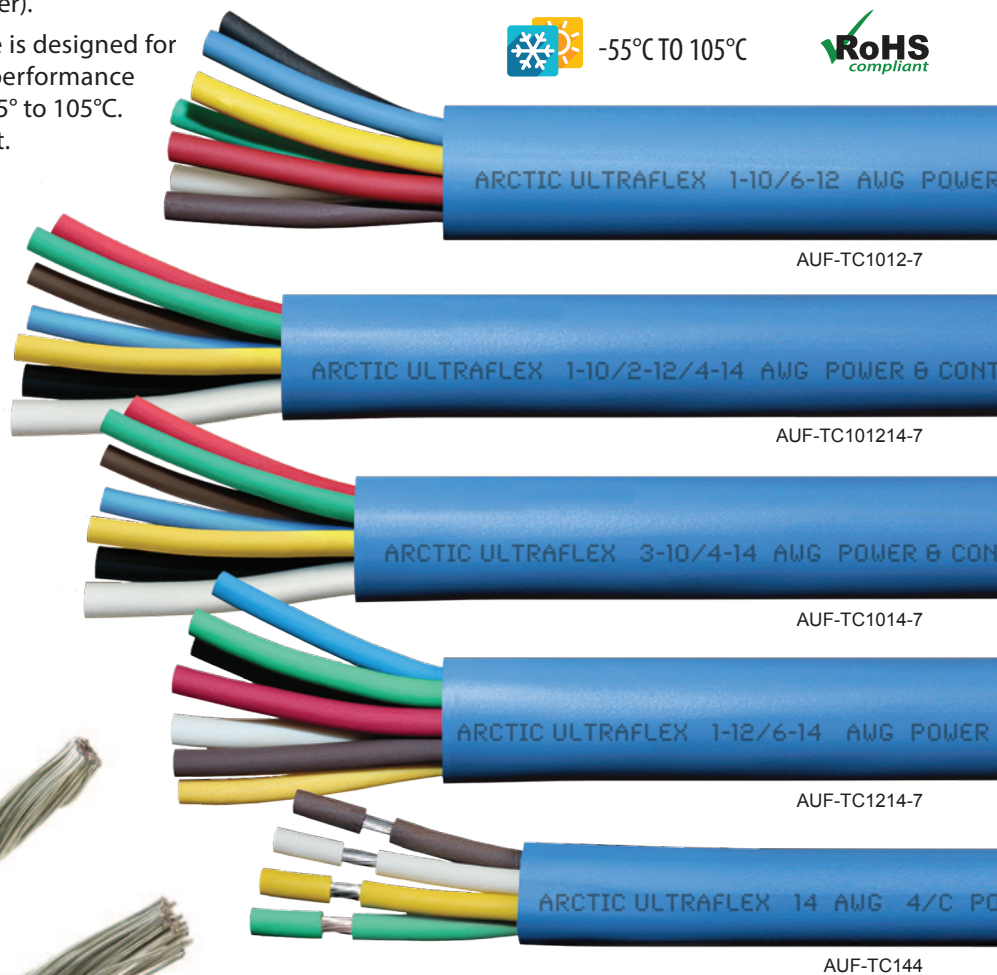
- Trailer wiring, DC power needs
- Solar panel and tracker wiring
- Renewable energy projects
- Robotics and related equipment

Typical Legend

ARCTIC ULTRAFLEX 1-12/6-14 AWG POWER & CONTROL TRAY CABLE TYPE TC 600V SUN RES



-55°C TO 105°C



AUF-TC1012-7



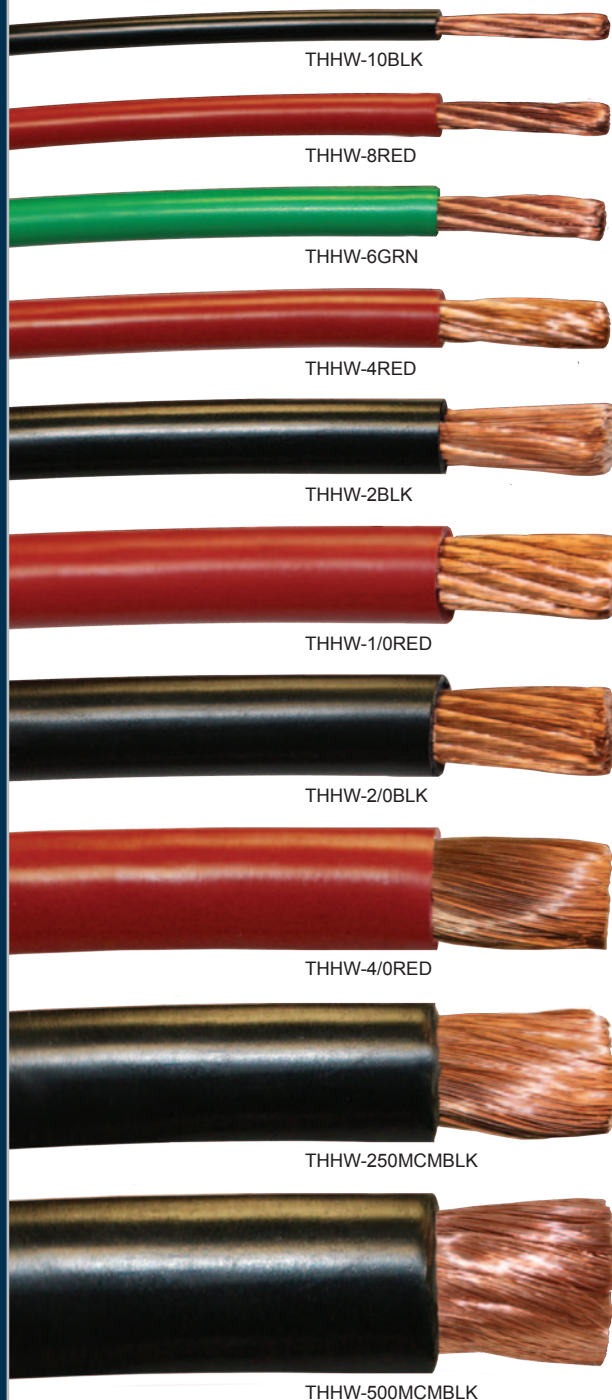
Multi-Conductor Trailer

Blue outer jacket

Part Number	Qty	Conductors	
		Size	Color
AUF-TC1012-7	1	10 AWG	White
	6	12 AWG	Black, Red, Blue, Green, Yellow, Brown
AUF-TC101214-7	1	10 AWG	White
	2	12 AWG	Black, Red
	4	14 AWG	Blue, Green, Yellow, Brown
AUF-TC1014-7 (Bare Copper)	3	10 AWG	White, Black, Red
	4	14 AWG	Black, Red, Blue, Green, Yellow, Brown
AUF-TC1214-7	1	12 AWG	White
	6	14 AWG	Black, Red, Blue, Green, Yellow, Brown
AUF-TC144	4	14 AWG	White, Green, Yellow, Brown

Multipurpose Flexible Wire

THHW / TEW / MTW / AWM / BC-5W2 / SAE TYPE SGT



Flexible Wire Ratings and Certifications:

Flexible Building Wire

An excellent oil, heat, acid, and moisture resistance Class K Flexing Service Wire constructed with 30 AWG stranding for superior flexibility. Conductors are soft annealed 100% copper with no aluminum, constructed to ASTM Specification B172. Extra-flexible extruded, high dielectric PVC insulation.

- Rated for -40°F to 221°F (-40°C to 105°C)
- UL Listed and CSA Certified

Fine Strand Battery Cable

More flexible than standard battery cable even in very cold temperatures. Cables made with Multi-Listed Flexible Wire withstand persistent vibration and flexing for reliability and longevity. Ideal for battery and starter cables, ground cables, and jumper cables.

- Fine strand annealed 100% copper conductor with a tough oil, heat, acid, and water resistant PVC jacket
- Meets and exceeds SAE standards, marine ratings

Flexible Welding Cable

30 AWG Class K fine stranded annealed copper conductors provide excellent conductivity and flexibility, reducing operator fatigue and improving efficiency. The tough, extra-flexible, high dielectric PVC jacket resists abrasion, oils, acids, heat, flame, and moisture, and performs reliably in severe cold temperatures and high heat conditions.

- Rated for -40°F to 221°F (-40°C to 105°C)
- Meets UL VW-1 and CSA FT1 flame test requirements.

Single Conductor Marine Boat Cable

BC-5W2 Boat Cable rated for 600 Volts. This flexible wire resists vibration and flexing fatigue, withstands salt water, oil, and fuel exposure, and stays pliable in cold down to -40°F to 221°F (-40°C to 105°C). Its 30 AWG Class K fine 100% copper stranding and highly flexible jacket eases installation in the constricted spaces and tight corners typical of boats.

- Meets or exceeds ABYC standards
- Meets UL VW-1 and CSA FT1 flame test requirements



Additional colors available by special order —minimums may apply

Multipurpose, Multiple Listed Flexible Wire

Features

- Excellent oil, heat, acid, and moisture resistance
- Class K Flexing Service Wire constructed with 30 AWG stranding for superior flexibility and conductivity
- Soft annealed bare copper made to ASTM Specification B172 with extra-flexible extruded, high dielectric polyvinyl chloride (PVC) insulation
- Rated for -40°F to 221°F (-40°C to 105°C)

Applications

- Multipurpose use in NEC Article 310 and NFPA Standard 79 applications
- Internal appliance wiring, electronic circuits, instrument panels, switchboards, fluorescent ballasts, recreational vehicles, boat cable, renewable energy systems
- Motor and transformer leads, battery cables, hookup wire, welding leads, jumper cables



Industry Approvals

- Meets UL VW-1 and CSA FT1 flame test requirements
- UL Listed and Approved for 600V
- Meets or exceeds UL, ABYC and SAE standards
- NEC types Machine Tool Wire and THHW
- 1/0 to 750 MCM are CT (Cable Tray) approved
- UL AWM styles 1232, 1284, 1338
- 6 AWG also UL1337, 1 to 4/0 also UL1338
- CSA Certified. TEW FT-1 for 6 to 4/0 AWG, AWM I A/B FT-1 for 250 to 750 MCM



Typical Legend

E321440 2 AWG (33.62mm²) 600 VOLT (UL) TYPE MTW VW-1 OR THHW OR BOAT CABLE BC-5W2 OR AWM STYLES 1232/1284/1338/10269 . . . CSA 234608 TEW 105°C 600V FT1 OR AWM I A/B 600 VOLT 105°C 600V FT1 . . . FOR SAE TYPE SGT

Class K Finely Stranded Multipurpose Flexible Wire THHW / TEW / MTW / AWM / BC-5W2 / SAE TYPE SGT

Part Number	Color	AWG	MM2	Bare Copper Stranding Qty/AWG	Nominal OD	Wall Thickness	UL Style	Ampacity** Dry	Ampacity** Wet
THHW-10BLK	● Black	10	5.26	105/30	.178"	.030"	1015	105	90
THHW-8BLK	● Black	8	8.37	168/30	.239"	.045"	1028	105	90
THHW-8RED	● Red	8	8.37	168/30	.239"	.045"	1028	105	90
THHW-6BLK	● Black	6	13.30	259/30	.326"	.060"	1232	105	95
THHW-6RED	● Red	6	13.30	259/30	.326"	.060"	1232	105	95
THHW-6GRN	● Green	6	13.30	259/30	.326"	.060"	1232	105	95
THHW-4BLK	● Black	4	21.15	420/30	.378"	.060"	1232	140	125
THHW-4RED	● Red	4	21.15	420/30	.378"	.060"	1232	140	125
THHW-2BLK	● Black	2	33.61	665/30	.485"	.060"	1232	190	170
THHW-2RED	● Red	2	33.61	665/30	.485"	.060"	1232	190	170
THHW-1BLK*	● Black	1	42.40	836/30	.550"	.080"	1232	220	195
THHW-1RED*	● Red	1	42.40	836/30	.550"	.080"	1232	220	195
THHW-1/0BLK	● Black	1/0	53.50	1064/30	.625"	.080"	1232	260	230
THHW-1/0RED	● Red	1/0	53.50	1064/30	.625"	.080"	1232	260	230
THHW-2/0BLK	● Black	2/0	67.40	1323/30	.650"	.080"	1232	300	265
THHW-2/0RED	● Red	2/0	67.40	1323/30	.650"	.080"	1232	300	265
THHW-3/0BLK*	● Black	3/0	85.00	1666/30	.710"	.080"	1232	350	310
THHW-3/0RED*	● Red	3/0	85.00	1666/30	.710"	.080"	1232	350	310
THHW-4/0BLK	● Black	4/0	107.0	2107/30	.805"	.080"	1232	405	360
THHW-4/0RED	● Red	4/0	107.0	2107/30	.805"	.080"	1232	405	360
THHW-250MCMBLK	● Black	250 MCM	127.0	2499/30	.880"	.095"	1284	455	405
THHW-500MCMBLK	● Black	500 MCM	253.0	5054/30	1.160"	.095"	1284	700	620
THHW-750MCMBLK*	● Black	750 MCM	380.0	7448/30	1.380"	.110"	1284	885	785

* Available by special order. Additional colors available upon request. Minimums may apply.

** 105°C ampacities adapted from ICEA P-54-440 /NEMA WC51-1986 R1991. The ampacities provided are for informational purposes only. Acceptance of these values by any governing body is the responsibility of the end user. Ampacities are based on a single conductor, in free air, at 30°C ambient air temperature.

Some sizes available in tinned copper by special order — minimums apply

DLO Wire

Type TC Direct Burial Cable

Diesel Locomotive Wire (DLO) RHH/RHW-2

Features

- Stranded tinned annealed copper conductor per AAR 589
- Premium-grade 90°C EP Insulation
- Black heavy-duty CPE Jacket
- -40°C to 90°C wet or dry
- Excellent impact and abrasion resistance
- Resists oils, acids, alkalies, heat, flame
- Flexible tinned copper stranding
- 2000 Volt as RHH/RHW-2
- 1000 Volt as CSA RW90

Applications

- Diesel electric locomotives
- Telecom power supply
- Oil and gas drilling rigs
- Mining and earth-moving equipment
- Shipyards and dockside power
- Motor leads, arc welder leads
- Where flexible power leads must be installed in conduit or raceways

Industry Approvals

- Made to UL and CSA Standards
- MSHA Accepted (P-136-29)
- UL Listed as RHH/RHW-2 per UL 44
- CSA Certified as Type RW90 1 kV per C22.2 No.38
- Meets FT-4, VW-1 Flame Tests
- CT Rated 1/0 and larger
- RoHS Compliant

2000V as UL RHH/RHW-2, 1000V as CSA RW90

Black outer jacket

Part Number	AWG or MCM	Conductor Stranding Qty/AWG	Nom. Insulation Thickness	Nom. Outside Diameter	Current Amps (1)*	Current Amps (2)*
DLO-10	10	27/24	.045"	0.26"	40	55
DLO-8	8	37/24	.060"	0.34"	55	80
DLO-6	6	61/24	.060"	0.40"	75	105
DLO-4	4	105/24	.060"	0.46"	95	140
DLO-2	2	154/24	.060"	0.52"	130	190
DLO-1	1	224/24	.080"	0.65"	150	220
DLO-1/0	1/0	280/24	.080"	0.69"	170	260
DLO-2/0	2/0	329/24	.080"	0.73"	195	300
DLO-3/0	3/0	145/24	.080"	0.81"	225	350
DLO-4/0	4/0	551/24	.080"	0.87"	260	405
DLO-262	262.6	646/24	.095"	1.00"	296	467
DLO-313	313.3	777/24	.095"	1.06"	326	522
DLO-373	373.7	925/24	.095"	1.10"	362	52
DLO-444	444.4	1110/24	.095"	1.23"	400	652
DLO-535	535.3	1332/24	.120"	1.34"	445	728
DLO-646	646.4	1600/24	.120"	1.45"	493	815
DLO-777	777.7	1924/24	.120"	1.50"	910	904

*(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature based on Table 310.16 of the NEC for not more than three current-carrying conductors in raceway, cable or earth.
*(2) Ampacities based on single-conductor in free air, in accordance with NEC Table 310.17.

Typical Legend

313.1 KCMIL (152.0mm²) TYPE RHH OR RHW-2 2KV (-40C) PR II SUN RES FOR CT USE FT4/IEEE 1202 (UL) E18321 --- CSA LL825 RW90 300 KCMIL EP 1KV (-40C) EP/CPE TC FT4 --- EPR/CPE 2KV DIESEL LOCOMOTIVE CABLE P-07-KA090026-MSHA --- RoHS 2013 2325 350 12114FT.



-40°C TO 90°C WET OR DRY



Type TC Direct Burial Cable

Type TC Direct Burial Power and Control Cable is a 600V cable with three 100% copper conductors and ground tray cable. Inner insulation jackets are UL Listed THHN/THWN heat stabilized PVC/nylon insulation. Its tough PVC outer jacket resists mechanical damage, heat, flame, moisture, chemicals, sunlight, and corrosion. Designed for burial without conduit and rated for temperatures from -25°C to 90°C.

Features

- 100% bare annealed copper Class B compressed stranded conductors and ground wire
- UL Listed flame and moisture resistant jacket
- Ripcord under jacket eases stripping
- Rated for 600 Volts
- Made in the USA



Applications

- Approved for cable tray, raceway, direct burial, and aerial installations with messenger wire
- Complies with NEC Articles 318, 340, 501, 725
- Approved for tray use in Class 1, Div 2 hazardous locations and Class 1 control circuits as permitted in NEC Articles 318, 501
- 4 AWG is UL Listed for exposed runs (TC-ER) per NEC 336.10
- Use at temperatures up to 75°C wet or 90° dry

Industry Approvals

- ASTM
- UL 1277
- ICEA S-58-679 - Control Cable Conductor Identification Method 4
- UL 1685 - UL CT Flame Exposure Test (70,000 Btu/hr)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 Btu/hr)
- ICEA 8-95-658 (NEMA WC 70) construction requirements
- IEEE 1202/FT4
- RoHS Compliant



Typical Legend

6 AWG 3 CDRS W/GND TYPE TC-ER THHN-THWN-2 CDRS 90C 600V SUN RES DIR BUR (UL) E153913

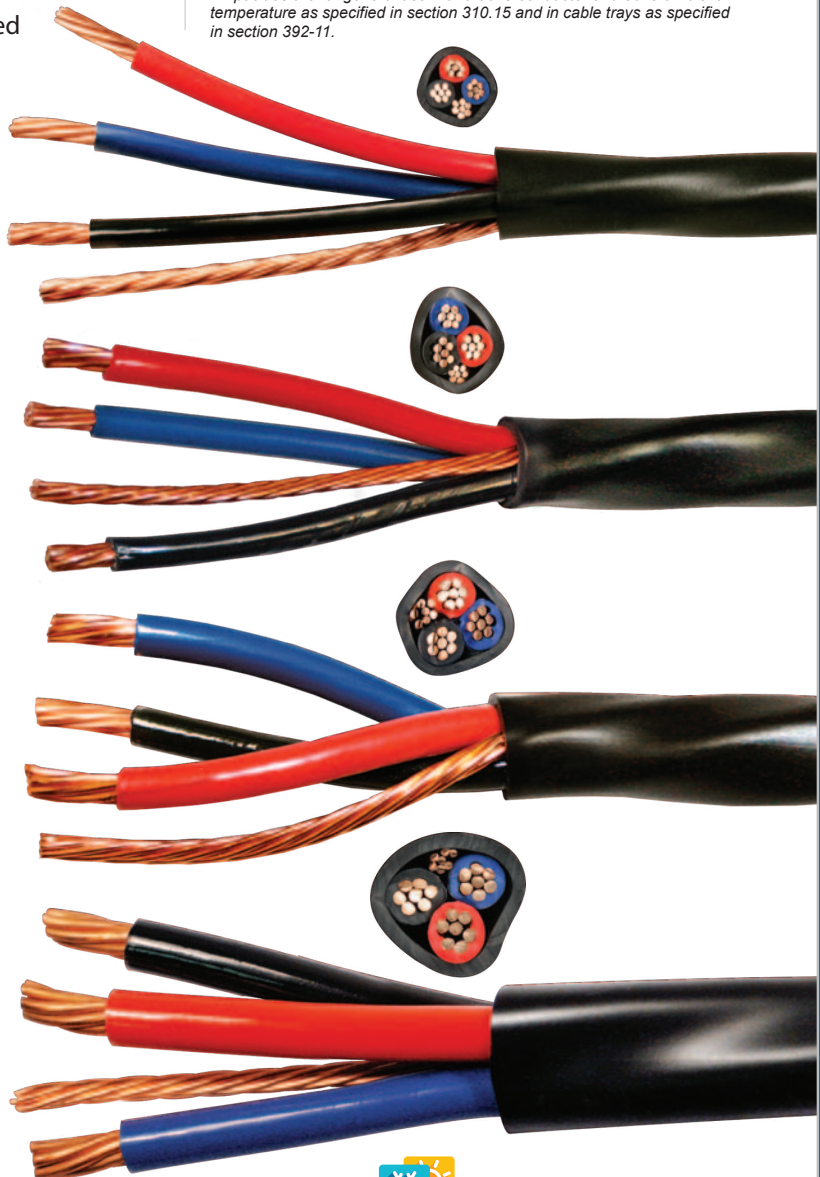
Type TC Direct Burial

Black outer jacket

Available by special order only (minimums apply)

Part Number	AWG/Conductors	Ampacity	
		75°C	90°C
THHN-103	10/3 with ground tray cable	35	40
THHN-83	8/3 with ground tray cable	50	55
THHN-63	6/3 with ground tray cable	65	75
THHN-43	4/3 with ground tray cable	85	95

NOTE: Ampacities based on Table 310.16 of the NEC, 2011 Edition. Ampacities are for general use with a 90°C conductor and 30°C ambient temperature as specified in section 310.15 and in cable trays as specified in section 392-11.



-25°C TO 75°C WET, 90°C DRY