

# Multipurpose Flexible Wire

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



THHW-10BLK



THHW-8RED



THHW-6GRN



THHW-4RED



THHW-2BLK



THHW-1/0RED



THHW-2/0BLK



THHW-4/0RED



THHW-250MCMBLK



THHW-500MCMBLK

### 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



-40°C TO 105°C

*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 (33.62mm<sup>2</sup>) 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-250MCM BLK	● Black	250 MCM	127.0	2499/30	.880"	.095"	1284	455	405
THHW-500MCM BLK	● Black	500 MCM	253.0	5054/30	1.160"	.095"	1284	700	620
THHW-750MCM BLK*	● 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**