



TW COPPER CONDUCTOR

STANDARDS

Underwriters' Laboratories Standard UL 83

Federal Specification JC-30A

NEMA WC70/ICEA S-95-658

SIZE (AWG)	NUMBER OF STRANDS	INSULATION THICKNESS IN MILS	APPROX. O.D. INCHES	AMPACITY (1)	APPROX. WEIGHT PER 1000 FT. IN POUNDS
14	SOLID	30	.13	+15	18
12	SOLID	30	.15	+20	27
10	SOLID	30	.17	30	40
8	SOLID	45	.23	50	65
14	STRAND	30	.15	+15	20
12	STRAND	30	.17	+20	29
10	STRAND	30	.19	30	42
8	STRAND	45	.25	50	67

(1)Based on not more than 3 conductors in raceway or cable (30°C, 86°F Ambient per NEC). 60°C conductor temperature rating.

+The overcurrent protection for conductor types marked with (+) shall not exceed 15 AMPS for 14 AWG, and 20 AMPS for 12 AWG per the NEC-84 Table 310-16.

Stock colors and packaging information available upon request.

APPLICATION NOTES

Type TW insulated wires are used for normal power applications up to 600 volts. They can be used for installation in conduit and ducts, at temperatures down to -10°C(+14°F). Type TW insulated wire are designed to operate at conductor temperatures of 60°C (140°F) in wet and dry locations. Their small diameters make them especially advantageous for rewiring as well as new installations. Type TW Building Wires are insulated with polyvinyl-chloride thermoplastic compounds that are especially designed to provide a tough flexible wire that provides excellent dielectric strength.