

NEC & CSA DESIGNATIONS

NEC WIRE TYPE	DESCRIPTION
MV-HL	Suffix "-HL" indicates acceptable for hazardous locations
ITC	Instrumentation tray cable, several combinations for insulations and jacket compounds
MV-LS	Suffix "-LS" indicates acceptable for limited smoke applications
MC	Metal clad cable, thermoplastic or crosslinked individual conductors, aluminum or steel interlocked armor
MTW	Machine tool wire, thermoplastic insulation (PVC), with or without Nylon, 90°C, dry locations
MV-90	Medium voltage cable rated at 90°C
MV-105	Medium voltage cable rated at 105°C
PLTC	Power-limited tray cable, several combinations of insulations and jacket compounds
RHH	Rubber or equivalent insulation, high heat resistant 90°C rating, dry or damp locations
RHW-2	Rubber or equivalent insulation, heat resistant 90°C rating, wet locations
SF-2	Silicone insulated fixture wire, solid or 7-strand
SFF-2	Silicone insulated fixture wire, flexible strand
SIS	Flame retardant thermoset switchboard wire
TC	Tray cable, several combinations of insulation and jacket compounds, cable tray use
TFFN	Thermoplastic insulation (PVC), flexible fixture wire, 90°C, dry locations, Nylon jacket
TFN	Thermoplastic insulation (PVC), fixture wire, 90°C, dry locations, Nylon jacket
THHN	Thermoplastic insulation (PVC), high heat resistant, 90°C rating, dry locations, Nylon jacket
THWN	Thermoplastic insulation (PVC), heat resistant 75°C rating, dry and wet locations, Nylon jacket
THWN-2	Thermoplastic insulation (PVC), high heat resistant 90°C rating, wet and dry locations, Nylon jacket
USE-2	Underground service entrance, cross-linked insulation, direct burial, 90°C rating
XHHW-2	Cross-linked insulation, high heat resistant 90°C rating, wet and dry locations

CSA WIRE TYPE	DESCRIPTION
AC90	600 Volt XLPE insulation aluminum or steel interlocked armored cable
ACIC	300 or 600 Volt armored instrument and control cable. A CSA type designation used to describe armored instrumentation and control cable. Available in either 300 Volt or 600 Volt with thermoset or thermoplastic insulation, this cable can be supplied with an overall shield, shielded pairs, shielded triads or unshielded in multi-conductor constructions from 2 to 72 conductors. The overall interlocked armor and PVC jacket provide a (-40°C), HL, FT4 product (CDS reference standard C22.2 No. 239)
ACWU90 (-40°C)	600 Volt XLPE insulation aluminum or steel interlocked armored cable with PVC jacket*
HL	Designation for hazardous locations (CSA STD C22.2 NO174)
NMD90	300 Volt non-metallic sheath cable with XLPE or PVC/Nylon insulation
NMWU	300 Volt non-metallic sheath cable with PVC insulation
RA90 (-40°C)	600 and 5000 Volt single and multiple conductor with seamless corrugated aluminum armor. A CSA type designation for single conductor or multi-conductor constructions similar to AC90 and ACWU90 except no bonding (grounding) conductor is required in the cable assembly. Also, the armor is a corrugated aluminum sheath that serves as a bonding (grounding) conductor. The overall PVC covering on RA90 is required for wet or direct burial applications (CSA reference standard C22.2 No. 123)*
RW90 XLPE (-40°C)	600 and 5000 Volt thermoset insulation 90°C wet or dry locations*
RWU90 XLPE (-40°C)	600 and 1000 Volt thermoset insulation 90°C direct burial*
SEW-2	600 Volt silicone rubber insulated equipment wire solid or 7-strand
SEWF-2	600 Volt silicone rubber insulated equipment wire with flexible strand
TECK90 (-40°C)	600 and 5000 Volt single and multiple conductor cable with inner jacket, aluminum* or steel interlocked armor with PVC jacket
TC	Tray cable certified for use in Class I Division 2 areas
TW75	600 Volt thermoplastic (PVC) insulated cable suitable for wet locations
TWU (-40°C)	600 Volt thermoplastic (PVC) insulated cable suitable for direct burial

* Passes -40°C Cold Impact Test

Technical Reference