Appendix H. Style, definition and reference

The manufacture of each wire is specified by a “style number” identifying a chart with all the manufacturing aspects of the wire. The chart includes the allowed temperatures and voltages, the wiring dimensions and material, the insulation material and thickness, the material and thickness of the possible conduit , possible jackets and shields, the reference standard and the use. Underwriters Laboratories Inc. divides the “style numbers” in 5 sections from 1 to 5. Inside them are classified the Appliance Wiring Materials.
Sections 1 and 2 include products manufactured with insulation and conduit made of a thermoplastic material such as the polyvinil chloride PVC, the polyethylene PE, the polypropylene PP; sections 3 and 4 include products manufactured with thermosetting material such as the rubber, the cross-linked polyethylene XLPE. Section 5 includes products which can be either single core or multicore, while insulation and conduit can be made of composite materials or with protection bands.

Table H.1. Classification of styles

Style	Size	Type
1000 – 1999 e 10000	1	Single conductor, thermoplastic - insulated wire
2000 – 2999 e 20000	2	Multi-conductor, thermoplastic - insulated and jacketed wire
3000 – 3999	3	Single conductor, thermosetting - insulated wire
4000 – 4999	4	Multi-conductor, thermosetting - insulated and jacketed wire
5000 – 5999	5	Single and multiple conductor specialty items

Here are resumed the main manufacturing characteristics specified in the respective “style numbers” of the electrical cables described in this document.

Table H.2. Manufacturing aspects recalled by the styles

Style	Product	Temperature Voltage	Conductor's section Insulation	Assembly	Jacket Shield	Braid Conduit	Use
1015	PVC Insulated Wire	80°C, 90°C or 105°C	30 AWG ÷ 2000 kcmil.	-	-	-	Internal Wiring of Appliances; or Internal Wiring of Appliances where exposed to oil at a temperature not exceeding 60°C or 80°C (whichever is applicable). Tags may also indicate the following: 2,500 V peak - for electronic use only.
		600Vac, 750Vdc	PVC insulation.		-	-	
1284	Thermoplastic (PVC) - Insulated Wire for Appliance Hook-Up Use	105°C	8 AWG ÷ 1000 MCM. Tinned or bare copper.	-	-	-	Internal wiring of appliances; or internal wiring of appliances where exposed to oil at a temperature not exceeding 60°C or 80°C (whichever is applicable).
		600V	PVC Insulation.		-	-	
2464	PVC Jacketed Cable	80°C	-	Two or more singles, twisted pairs of groups of twisted singles twisted together or singles or groups of singles may be laid parallel to form flat, oval or round cable. Lay not specified. Barrier layer and/or fillers optional. Manufacturer shall maintain a complete description of each assembly. May use same or mixed AWG size.	Optional	Optional	Internal wiring or external interconnection of electronic equipment (such as desk-type calculators, dictating machines, or x-ray equipment).
		300 V	Labeled or complying with manufacturer's AWM Procedure having a minimum rating of 80°C and 300 V		Optional	PVC, Class 43	
2570	PVC Jacketed Cable	80°C	40 AWG minimum	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together. The conductors or groups of conductors may be laid parallel forming a flat, oval or round cable. The lay of the conductors is not specified. A barrier layer and/or fillers are optional. Manufacturer shall maintain a complete description of each assembly. May use same or mixed AWG size.	Optional: a 6 mil or heavier PVC covering may be extruded over the conductor assembly	-	External interconnection or internal wiring of electronic equipment.
		600 or 1000V	Labeled or complying with Manufacturer's AWM Procedure having a minimum rating of 80°C, 600 or 1000V.		Optional	PVC, Class 43	
2587	PVC Jacketed Cable	90°C	40 AWG minimum	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together. The conductors or groups of conductors may be laid parallel forming a flat, oval or round cable. The lay of the conductors is not specified. A barrier layer and/or fillers are optional. Manufacturer shall maintain a complete description of each assembly. May use same or mixed AWG size.	Optional: a 6 mil or heavier PVC covering may be extruded over the conductor assembly.	-	External interconnection or internal wiring of electronic equipment.
		600V	Labeled or complying with Manufacturer's AWM Procedure having a minimum rating of 90°C, 600V.		Optional	PVC, Class 43	
2919	Low Voltage Computer Cable	80°C	40 AWG minimum	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together. The conductors or groups of conductors may be laid parallel forming a flat, oval or round cable. The lay of the conductors is not specified. A barrier layer and/or fillers are optional. Manufacturer shall maintain a complete description of each assembly. May use same or mixed AWG size.	Optional: a 6 mil or heavier PVC covering may be extruded over the conductor assembly	Optional	As internal wiring or external interconnection in Class 2 Circuits of electronic computers and electric business machines.
		30V	Labeled or complying with Manufacturer's AWM Procedure having a minimum rating of 80°C, 30V.		Optional	PVC, Class 43	

Style	Product	Temperature Voltage	Conductor's section Insulation	Assembly	Jacket Shield	Braid Conduit	Use
20233	Multi-Conductor Jacketed Cable	80°C	36 AWG minimum. Solid or Stranded.	Two or more individually insulated conductors or groups ofinsulated conductors cabled together to form a round cable. A flat or oval cable may also be constructed with not more than three rows of single conductors or groups of conductors. The length of lay of the twisted conductors or groups is not specified. Fillers may be used in a cable but are not required. A barrier layer, if employed, may be a fibrous wrap serving, or braid, paper, nylon, oriented polyethylene terephthalate, or thermoplastic-tape wrap. Such a barrier layer would serve to protect the cable during further processing and would be applied immediately over the twisted assembly of individual conductors or groups of conductors.	Optional	Optional	External interconnection of electronic equipment.
		300V	Labeled or complying with manufacturer's AWM Procedure and Having a min rating of 80°C and 300V. The designations of all styles of individual conductors used in making up the cable assembly shall be available.		Optional	Poly-urethane	
20234	Thermoplastic Polyurethane Jacketed Cable	80°C	36 AWG minimum. Solid or stranded	Two or more individually insulated conductors or groups ofinsulated conductors cabled together to form a round cable. A flat or oval cable may also be constructed with not more than three rows of single conductors or groups of conductors. The length of lay of the twisted conductors orgroups is not specified. Fillers may be used in a cable but are not required. A barrier layer, if employed, may be a fibrous wrap serving, or braid; paper; nylon; oriented polyethylene terephthalate; or thermoplastic-tape wrap. Such a barrier layer would serve to protect the cable during further processing and would be applied immediately over thetwisted assembly of individual conductors or groups of conductors.	Optional	Optional	External interconnection of electronic equipment.
		600 or 1000V	Labeled or complying with manufacturer's AWM Procedure and having a minimum rating of 80°C and 600V or 1000V respectively.		Optional	Poly-urethane	
20236	Polyurethane Jacketed Cable	80°C	36 AWG minimum. Solid or stranded	Two or more individually insulated conductors or groups of insulated conductors cabled together to form a round cable. A flat or oval cable may also be constructed with not more than three rows of single conductors or groups of conductors. The length of lay of the twisted conductors or groups is not specified. Fillers may be used in a cable but are not required. A barrier layer, if employed, may be a fibrous wrap serving, or braid; paper; nylon; oriented polyethylene terephthalate; thermoplastic covering, or thermoplastic-tape wrap.	Optional: 4 mil or heavier wall of PVC or other thermoplastic covering may be extruded over the conductor assembly or groups of conductors (with or without shields)	-	Internal wiring or external interconnection of electronic equipment.
		30V	Labeled or complying with manufacturer's AWM Procedure and having a min rating of 80°C and 30V. The designations of all styles of individual conductors used in making up the cable assembly shall be available.		Optional	Poly-urethane	
20554	Polyurethane Jacketed Cable	80°C	40 AWG minimum	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together. The conductors or groups of conductors may be laid parallelforming a flat, oval or round cable. The lay of the conductor is not specified. A barrier layer and/or fillers are optional. Manufacturer shall maintain a complete description of each assembly. May use same or mixed AWG size.	Optional: a 6 mil or heavier covering may be extruded over the conductor assembly	-	Internal wiring of electronic equipment and appliances.
		30V	Labeled or complying with Manufacturer's AWM Procedure having a minimum rating of 80°C, 30V.		Optional	Poly-urethane	
20886	PVC Jacketed Cable	80°C, 90°C or 105°C	40 AWG minimum	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together. The conductors or groups of conductors may be laid parallel forming a flat, oval or round cable. The lay of the conductors is not specified. A barrier layer and/or fillers are optional. May use same or mixed AWG size.	Optional: a 6 mil or heavier PVC covering may be extruded over the conductor assembly	-	External interconnection or internal wiring of electronic equipment.
		1000Vac, 1200Vdc	Labeled or complying with 1000Vac, 1200Vdc and a temperature rating equalling or exceeding the rating of the cable.		Optional	PVC, Class 43	