

Appendice F. Specifiche Flexible cords and cables secondo NFPA 70

Appendix F. Flexible cords and cables according to NFPA 70

Nella tabella che segue vengono definite le sigle utilizzate per definire le tipologie dei Flexible cords and cables mentre nella tabella successiva sono definite le caratteristiche ed i limiti di impiego.
In the tables below identification letters for coding and types for Flexible cords and cables are specified.

Tabella F.1. Sigle utilizzate per definire i Flexible cords and cables specificati nell'Art. 400 del NFPA 70 (NEC)
Table F.1. Letters used for Flexible cords and cables coding specified in the Art. 400 of NFPA 70 (NEC)

Tipo Letter	Descrizione Description
E	As first letter: Elevator cable.
E	After first letter: Thermoplastic elastomer insulation.
H	Heater cord.
NI	"Non-integral" used for parallel cords such as Type NISPT-1 to denote insulated conductors and jacket are separate.
O	The jacket is oil resistant.
OO	The jacket and the conductor insulation are oil resistant.
P	Parallel conductor cord.
S	Extra hard usage Flexible Cord.
SJ	Hard usage Flexible Cord.
SV	Not hard usage Flexible Cord.
T	As first letter: Tinsel cord. Single flattened No. 27 AWG conductor wound around insulating core, for very low current, highly flexible application.
T	After first letter: Thermoplastic insulation.
-1, -2, -3	Insulation thickness for parallel cords, thinnest to thickest. Actual insulation thickness varies with cord type and AWG size.
XTW	Parallel cord for decorative lighting strings.
CXTW	Twisted pair cord or single conductor for decorative lighting strings.
W	As last letter: Moisture and sunlight resistant.
W	As the only letter: Portable Power Cable.

Esempi - Examples

S00W – Extra hard usage, jacket and conductor insulation are oil resistant, moisture and sunlight resistant

SJTO – Hard usage, thermoplastic insulation, jacket is oil resistant

Tabella F2. Specifiche dei Flexible cords and cables secondo Art. 400 del NFPA 70 (NEC) - Ed. 2020 - Tabella 400.4
Table F2. Flexible cords and cables according to Art. 400 of NFPA 70 (NEC) - Ed. 2020 - Table 400.4

Descrizione <i>Trade name</i>	Tipo <i>Type</i>	Codice famiglia <i>Family code</i> TEKIMA	Uso <i>Use</i>	Tensione <i>Voltage [V]</i>	Sezione <i>Size [AWG/kcmil]</i>	Numero di conduttori <i>Number of conductors</i>	Materiale dell'isolamento <i>Insulation</i>	Guaina <i>Outer covering</i>
Lamp cord	C	80160	Pendant or portable. Dry locations. Not hard usage.	300 600	18÷16 15÷10	min. 2	Termoindurente o termoplastico <i>Thermoset or thermoplastic</i>	Nessuna <i>None</i>
Elevator cable	E	80170	Elevator lighting and control. Unclassified locations.	300 o 600	20÷2	min. 2	Termoindurente <i>Thermoset</i>	Tre strati di cotone, il più esterno resistente alla fiamma e all'umidità <i>Three cotton, Outer one flame-retardant & moisture-resistant</i>
Elevator cable	E0	80180	Elevator lighting and control. Unclassified locations.	300 o 600	20÷2	min. 2	Termoindurente <i>Thermoset</i>	Tre strati di cotone, il più esterno resistente alla fiamma e all'umidità <i>Three cotton, Outer one flame-retardant & moisture-resistant</i>
Elevator cable	E0	80190	Elevator lighting and control. Hazardous (classified) locations.	300 o 600	20÷2	min. 2	Termoindurente <i>Thermoset</i>	Cotone e guaina in neoprene <i>One cotton and a neoprene jacket.</i>
Elevator cable	ETP	80200	Hazardous (classified) locations.	300 o 600	-	-	-	Termoplastico <i>Thermoplastic</i>
Elevator cable	ETT	80210	Hazardous (classified) locations.	300 o 600	-	-	-	Cotone o equivalente e guaina termoplastica <i>One cotton or equivalent and a thermoplastic jacket</i>
Electric vehicle cable	EV	80220	Electric vehicle charging. Wet location. Extra hard usage.	1000	18÷500	min. 2 plus grounding conductor(s), plus optional hybrid data, signal communications, and optical fiber cables.	Termoindurente con nylon opzionale <i>Thermoset with optional nylon</i>	Termoindurente <i>Thermoset</i>
	EVJ	80230	Electric vehicle charging. Wet location. Hard usage.	300	18÷12			
	EVE	80240	Electric vehicle charging. Wet location. Extra hard usage.	1000	18÷500	min. 2 plus grounding conductor(s), plus optional hybrid data, signal communications, and optical fiber cables.	Elastomero termoplastico con nylon opzionale <i>Thermoplastic elastomer with optional nylon</i>	Elastomero termoplastico <i>Thermoplastic elastomer</i>
	EVJE	80250	Electric vehicle charging. Wet location. Hard usage.	300	18÷12			
Portable power cable	EVT	80260	Electric vehicle charging. Wet location. Extra hard usage.	1000	18÷500	min. 2 plus grounding conductor(s), plus optional hybrid data, signal communications, and optical fiber cables.	Termoplastico con nylon opzionale <i>Thermoplastic with optional nylon</i>	Termoplastico <i>Thermoplastic</i>
	EVJT	80270	Electric vehicle charging. Wet location. Hard usage.	300	18÷12			
Heater cord	G	80155	Portable and extra hard usage.	2000	12÷500	2÷6 plus grounding conductor(s)	Termoindurente <i>Thermoset</i>	Termoindurente, oil-resistant <i>Oil-resistant thermoset</i>
	G-GC	80150		2000	12÷500	3÷6 plus grounding conductors and 1 ground check conductor	Termoindurente <i>Thermoset</i>	Termoindurente, oil-resistant <i>Oil-resistant thermoset</i>
Heater cord	HPD	80280	Portable heaters. Dry locations. Not hard usage.	300	18÷12	2, 3 or 4	Termoindurente <i>Thermoset</i>	Cotone o rayon <i>Cotton or rayon</i>

Descrizione Trade name	Tipo Type	Codice famiglia Family code TEKIMA	Uso Use	Tensione Voltage [V]	Sezione Size [AWG/kcmil]	Numero di conduttori Number of conductors	Materiale dell'isolamento Insulation	Guaina Outer covering
Parallel heater cord	HPN	80290	Portable. Damp locations. Not hard usage.	300	18÷12	2 or 3	Termoindurente, oil-resistant Oil-resistant thermoset	Termoindurente, oil-resistant Oil-resistant thermoset
Thermoset jacketed heater cords	HSJ	80300	Portable or portable heater. Damp locations. Hard usage.	300	18÷12	2, 3 or 4	Termoindurente Thermoset	Cotone e termoindurente Cotton and thermoset
	HSJO	80310		300	18÷12		Termoindurente Thermoset	Cotone e termoindurente, oil-resistant Cotton and oil-resistant thermoset
	HSJ00	80320		300	18÷12		Termoindurente, oil-resistant Oil-resistant thermoset	
	NISP-1	80330		300	20÷18		Termoindurente Thermoset	Termoindurente Thermoset
	NISP-2	80340		300	18÷16			
Nonintegral parallel cords	NISPE-1	80350	Pendant or portable. Damp locations. Not hard usage.	300	20÷18	2 or 3	Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico Thermoplastic elastomer
	NISPE-2	80360		300	18÷16			
	NISPT-1	80370		300	20÷18		Termoplastico Thermoplastic	Termoplastico Thermoplastic
	NISPT-2	80380		300	18÷16			
				300	18÷16			
Twisted portable cord	PD	80390	Pendant or portable. Dry locations. Not hard usage.	300	18÷16	min. 2	Termoindurente o termoplastico Thermoset or thermoplastic	Cotone o rayon Cotton or rayon
Portable power cable	PPE	80400	Portable, extra hard usage.	2000	12÷500	1÷6 plus optional grounding conductor(s)	Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico, oil-resistant Oil-resistant thermoplastic elastomer
Hard service cord	S	80010	Pendant or portable. Damp locations. Extra hard usage.	600	18÷12	min. 2	Termoindurente Thermoset	Termoindurente Thermoset
Flexible stage and lighting power cable	SC	80410	Pendant or portable. Damp locations. Extra hard usage.	600	8÷250	min. 1	Termoindurente Thermoset	Termoindurente Thermoset
	SCE	80420		600			Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico Thermoplastic elastomer
	SCT	80430		600			Termoplastico Thermoplastic	Termoplastico Thermoplastic
	SE	80440		600				Elastomero termoplastico Thermoplastic elastomer
Hard service cord	SEW	80450	Pendant or portable. Damp locations and wet locations. Extra hard usage.	600	18÷2	min. 2	Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico Thermoplastic elastomer
	SEO	80460	Pendant or portable. Damp locations. Extra hard usage.	600				
	SEOW	80470	Pendant or portable. Damp locations and wet locations. Extra hard usage.	600				
	SEO0	80480	Pendant or portable. Damp locations. Extra hard usage.	600			Elastomero termoplastico oil resistant Oil-resistant thermoplastic elastomer	Elastomero termoplastico oil resistant Oil-resistant thermoplastic elastomer
	SEOOW	80490	Pendant or portable. Damp locations and wet locations. Extra hard usage.	600				
				600				

Descrizione Trade name	Tipo Type	Codice famiglia Family code TEKIMA	Uso Use	Tensione Voltage [V]	Sezione Size [AWG/kcmil]	Numero di conduttori Number of conductors	Materiale dell'isolamento Insulation	Guaina Outer covering
Junior hard service cord	SJ	80020	Pendant or portable. Damp locations. Hard usage.	300			Termoindurente Thermoset	Termoindurente Thermoset
	SJE	80500		300				
	SJEW	80510	Pendant or portable. Damp and wet locations. Hard usage.	300			Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico Thermoplastic elastomer
	SJEO	80520	Pendant or portable. Damp locations. Hard usage.	300				
	SJEOW	80530	Pendant or portable. Damp and wet locations. Hard usage.	300				Elastomero termoplastico, oil- resistant Oil-resistant thermoplastic elastomer
	SJEOO	80540	Pendant or portable. Damp locations. Hard usage.	300				
	SJEOOW	80550	Pendant or portable. Damp and wet locations. Hard usage.	300				
	SJO	80030	Pendant or portable. Damp locations. Hard usage.	300			Termoindurente Thermoset	Termoindurente, oil-resistant Oil-resistant thermoset
	SJOW	80560	Pendant or portable. Damp and wet locations. Hard usage.	300	18÷10	2÷6		
	SJOO	80570	Pendant or portable. Damp locations. Hard usage.	300			Termoindurente, oil-resistant Oil-resistant thermoset	
	SJOOW	80140	Pendant or portable. Damp and wet locations. Hard usage.	300				
	SJT	80050	Pendant or portable. Damp locations. Hard usage.	300				Termoplastico Thermoplastic
Hard service cord	SJTW	80580	Pendant or portable. Damp and wet locations. Hard usage.	300			Termoplastico Thermoplastic	
	SJTO	80590	Pendant or portable. Damp locations. Hard usage.	300				
	SJTOW	80060	Pendant or portable. Damp and wet locations. Hard usage.	300				Termoplastico, oil-resistant Oil-resistant thermoplastic
	SJT00	80600	Pendant or portable. Damp locations. Hard usage.	300				
	SJT0OW	80610	Pendant or portable. Damp and wet locations. Hard usage.	300			Termoplastico, oil-resistant Oil-resistant thermoplastic	
	SO	80070	Pendant or portable. Damp locations. Extra hard usage.	600			Termoindurente Thermoset	Termoindurente, oil-resistant Oil-resistant thermoset
	SOW	80620	Pendant or portable. Damp and wet locations. Extra hard usage.	600				
	S00	80630	Pendant or portable. Damp locations. Extra hard usage.	600	18÷2	min. 2		
All thermoset parallel cord	S0OW	80120	Pendant or portable. Damp and wet locations. Extra hard usage.	600			Termoindurente, oil-resistant Oil-resistant thermoset	
	SP-1	80640	Pendant or portable. Damp locations.	300	20÷18			
	SP-2	80650	Not hard usage.	300	18÷16	2 or 3	Termoindurente Thermoset	Nessuna None
	SP-3	80660	Refrigerators, room air conditioners, and as permitted in 422.16(e). Damp locations. Not hard usage.	300	18÷10			

Descrizione <i>Trade name</i>	Tipo <i>Type</i>	Codice famiglia <i>Family code</i> TEKIMA	Uso <i>Use</i>	Tensione <i>Voltage [V]</i>	Sezione <i>Size [AWG/kcmil]</i>	Numero di conduttori <i>Number of conductors</i>	Materiale dell'isolamento <i>Insulation</i>	Guaina <i>Outer covering</i>
All elastomer (thermoplastic) parallel cord	SPE-1	80670	Pendant or portable. Damp locations. Not hard usage.	300	20÷18			
	SPE-2	80680		300	18÷16	2 or 3	Elastomero termoplastico <i>Thermoplastic elastomer</i>	Nessuna <i>None</i>
	SPE-3	80690	Refrigerators, room air conditioners, and as permitted in 422.16(B). Damp locations. Not hard usage.	300	18÷10			
All plastic parallel cord	SPT-1	80700	Pendant or portable. Damp locations. Not hard usage.	300		2 or 3		
	SPT-1W	80710	Pendant or portable. Damp and wet locations. Not hard usage.	300	20÷18	2		
	SPT-2	80720	Pendant or portable. Damp locations. Not hard usage.	300		2 or 3	Termoplastico <i>Thermoplastic</i>	Nessuna <i>None</i>
	SPT-2W	80730	Pendant or portable. Damp and wet locations. Not hard usage.	300	18÷16	2		
	SPT-3	80740	Refrigerators, room air conditioners, and as permitted in 422.16(B). Damp locations. Not hard usage.	300	18÷10	2 or 3		
Range, dryer cable	SRD	80750		300	10÷4	3 or 4	Termoindurente <i>Thermoset</i>	Termoindurente <i>Thermoset</i>
	SRDE	80760	Portable. Damp locations. Ranges, dryers.	300	10÷4	3 or 4	Elastomero termoplastico <i>Thermoplastic elastomer</i>	Elastomero termoplastico <i>Thermoplastic elastomer</i>
	SRDT	80770		300	10÷4	3 or 4	Termoplastico <i>Thermoplastic</i>	Termoplastico <i>Thermoplastic</i>
Hard service cord	ST	80780	Pendant or portable. Damp locations. Extra hard usage.	600				Termoplastico <i>Thermoplastic</i>
	STW	80790	Pendant or portable. Damp and wet locations. Extra hard usage.	600				
	STO	80800	Pendant or portable. Damp locations. Extra hard usage.	600			Termoplastico <i>Thermoplastic</i>	
	STOW	80080	Pendant or portable. Damp and wet locations. Extra hard usage.	600	18÷2	min. 2		Termoplastico, oil-resistant <i>Oil-resistant thermoplastic</i>
	STOO	80810	Pendant or portable. Damp locations. Extra hard usage.	600				
	STOOW	80820	Pendant or portable. Damp and wet locations. Extra hard usage.	600			Termoplastico, oil-resistant <i>Oil-resistant thermoplastic</i>	

Descrizione Trade name	Tipo Type	Codice famiglia Family code TEKIMA	Uso Use	Tensione Voltage [V]	Sezione Size [AWG/kcmil]	Numero di conduttori Number of conductors	Materiale dell'isolamento Insulation	Guaina Outer covering
Vacuum cleaner cord	SV	80090	Pendant or portable. Damp locations. Not hard usage.	300	18÷16	2 o 3	Termoindurente Thermoset	Termoindurente Thermoset
	SVE	80830		300			Elastomero termoplastico Thermoplastic elastomer	Elastomero termoplastico Thermoplastic elastomer
	SVEO	80840		300			Elastomero termoplastico, oil-resistente Oil-resistant thermoplastic elastomer	Elastomero termoplastico, oil-resistente Oil-resistant thermoplastic elastomer
	SVO	80850		300				
	SVE00	80860		300			Termoindurente Thermoset	Termoindurente, oil-resistente Oil-resistant thermoset
	SV00	80870		300			Termoindurente, oil-resistente Oil-resistant thermoset	Termoindurente, oil-resistente Oil-resistant thermoset
	SVT	80100		300			Termoplastico Thermoplastic	Termoplastico Thermoplastic
	SVT0	80880		300			Termoplastico Thermoplastic	Termoplastico, oil-resistente Oil-resistant thermoplastic
	SVT00	80890		300			Termoplastico, oil-resistente Oil-resistant thermoplastic	
Parallel tinsel cord	TPT	80900	Attached to an appliance. Damp locations. Not hard usage.	300	27	2	Termoplastico Thermoplastic	Termoplastico Thermoplastic
Jacketed tinsel cord	TST	80910	Attached to an appliance. Damp locations. Not hard usage.	300	27	2	Termoplastico Thermoplastic	Termoplastico Thermoplastic
Portable power- cable	W	80130	Portable, extra hard usage.	2000	12÷500	1÷6	Termoindurente Thermoset	Termoindurente, oil-resistente Oil-resistant thermoset
					501÷1000		Termoindurente Thermoset	Termoindurente, oil-resistente Oil-resistant thermoset