

Technical Information

技術資訊



TECHNICAL INFORMATION 技術資訊

Classification for JIS Cable 日本JIS線分類

CLASS	SYMBOL
PVC insulated single-core cord	VSF
Heat-resistant PVC insulated single-core cord	HVSF
PVC insulated twin-twisted cord	VTF
Heat-resistant PVC insulated twin-core cord	HVTF
PVC insulated flat cord	VFF
Heat-resistant PVC insulated flat cord	HVFF
PVC insulated cabtyre round cord	VCTF
Heat-resistant PVC insulated cabtyre round cord	HVCTF
PVC insulated cabtyre oval cord	VCTFK
Heat-resistant PVC insulated cabtyre oval cord	HVCTFK
600V grade PVC insulated and sheathed	VCT

Symbols designate the following:
符號標明如下:

- V : polyvinyl chloride 聚氯乙烯
- SF : single core flexible cord 單芯軟電線
- TF : twin-twisted flexible cord 雙芯絞合軟電線
- FF : flat flexible cord 扁型軟電線
- CTF : cabtyre cord 圓型電線
- K : oval 卵型
- H : heat-resistant insulation 耐熱絕緣

Harmonized Wire Coding System 協調線材編碼系統

This chart illustrates the Harmonization code for cordage "H05VVVF3G0.75"
此表舉例解釋歐陸式協調系統標稱如 "H05VVVF3G0.75"

Type 種類

- Hamonized 協調系統
- Other Standard 其他標準

Voltage Rating 電壓

- 300 / 300V
- 300 / 500V
- 450 / 750V

Conductor Insulation 導體絕緣

- PVC 聚氯乙烯
- Rubber (Natural or Synthetic) 橡膠 (天然或人造)
- Polychloroprene Rubber 氯丁橡膠
- Silicone Rubber 硅橡膠
- Glass Fiber Construction 纖維結構

Cable Jacket 電線護套

- PVC 聚氯乙烯
- Rubber (Natural or Synthetic) 橡膠 (天然或人造)
- Polychloroprene Rubber 氯丁橡膠
- Textile Construction 編織結構

Special Component 特別

- (Rarely used 不常用)

Construction Detail 導體

- Flat, separate cable 扁型，分隔電線
- Flat, non-separate cable 扁型，不分隔電線

Conductor Construction 導體結構

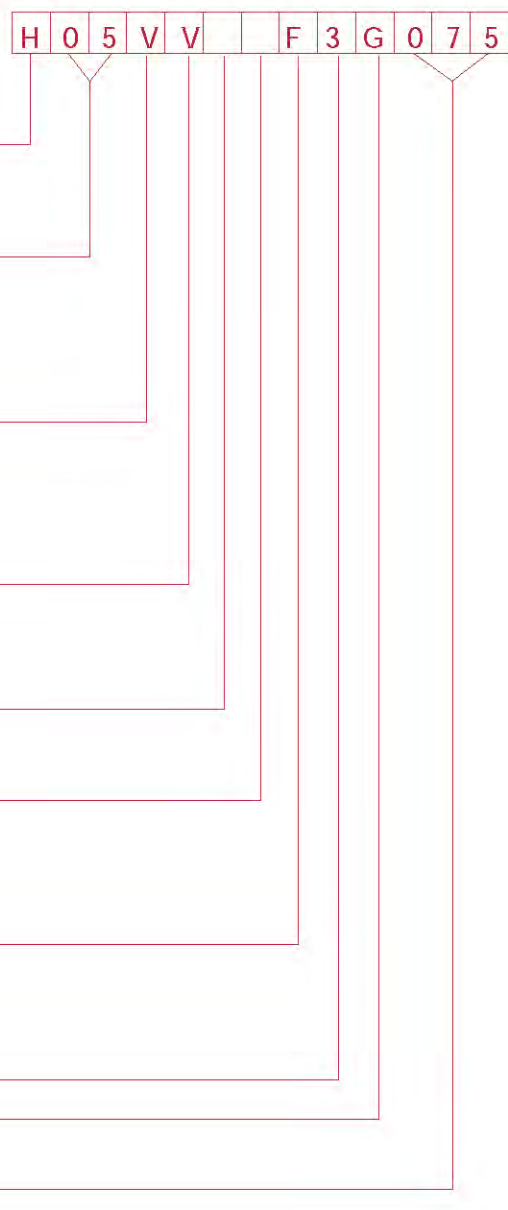
- Solid 單支
- Stranded 絞合
- Fine wire-stationary install 幼細 — 固定裝置
- Fine wire-flexible cordage 幼細 — 軟線種
- Extra-fine wire-flex. cordage 特幼細 — 軟線種
- Tinsel cord 天梳線

Number of Conductors 導體數目

With ground conductor 有地線導體

Without ground conductor 沒有地線導體

Cross-sectional size of conductors in mm² 導體面積

































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Flexible Cord Jacketing Designations

CODE	DESCRIPTION	AWG SIZE	CONDUCTORS	INSULATION / JACKET	VOLTAGE RATING
TPT	Tinsel Parallel Thermoplastic	27 Tinsel	2	PVC / No Jacket	250
TS	Tinsel Service			Rubber / Rubber	125
TST	Tinsel Service Thermoplastic			PVC / PVC	125
SPT-1	Service Parallel Thermoplastic - 1/64" Insulation	18	2,3	PVC / No Jacket	300
SPT-2	Service Parallel Thermoplastic - 2/64" Insulation	18 - 16			
SPT-3	Service Parallel Thermoplastic - 3/64" Insulation	18 - 10			
SPE-1	Service Parallel Elastomer - 1/64" Insulation	18	2,3	Elastomer / No Jacket	300
SPE-2	Service Parallel Elastomer - 2/64" Insulation	18 - 16		PVC / No Jacket	300
SPE-3	Service Parallel Elastomer - 3/64" Insulation	18 - 10			
SV	Service Vacuum	18	2,3	Rubber / Rubber	300
SVO	Service Vacuum Oil Resistant Jacket				
SVOO	SVO with Oil Resistant Insulation				
SVT	Service Vacuum Thermoplastic	18 - 17	2,3	PVC / PVC	300
SVTO	SVT with Oil Resistant Jacket				
SVTOO	SVTO with Oil Resistant Insulation				
SVE	Service Vacuum Elastomer	18 - 17	2,3	Elastomer / Elastomer	300
SVEO	SVE with Oil Resistant Jacket				
SVEOO	SVEO with Oil Resistant Insulation				
SJ	Service Junior	18 - 10	2,3,4	Rubber / Rubber	300
SJO	SJ with Oil Resistant Jacket				
SJOO	SJO with Oil Resistant Insulation				
SJT	Service Junior Thermoplastic	18 - 10	2,3,4	PVC / PVC	300
SJTW	SJT with Outdoor Jacket				
SJTO	SJT with Oil Resistant Jacket				
SJTOO	SJTO with Oil Resistant Insulation	18 - 10	2,3,4,5	Elastomer / Elastomer	300
SJE	Service Junior Elastomer				
SJEO	SJE with Oil Resistant Jacket				
SJEOW	SJEO with Outdoor Jacket	18 - 2	2 or more	Rubber / Rubber	600
SJEOO	SJEO with Oil Resistant Jacket				
S	Service				
SO	Service with Oil Resistant Jacket	18 - 2	2 or more	PVC / PVC	600
SOO	SO with Oil Resistant Insulation				
ST	Service Thermoplastic				
STW	ST with Outdoor Jacket	18 - 2	2 or more	Elastomer / Elastomer	600
STO	ST with Oil Resistant Jacket				
SE	Service Elastomer				
SEO	SE with Oil Resistant Jacket	14 - 2	2,3,4	Rubber / No Jacket	300
SEOW	SEO with Outdoor Jacket				
SEOO	SEO with Oil Resistant Insulation				
HPN	Heater Parallel Rubber	18 - 12	2,3	Rubber / Rubber	300
HSJ	Heater Service Junior	18 - 12	2,3,4	Rubber / Rubber	300
HSJO	HSJ with Oil Resistant Jacket	14 - 2	2,3,4	Rubber / Rubber	300
HS	Heater Service				
HSO	HS with Oil Resistant Jacket				

TECHNICAL INFORMATION 技術資訊

PLUGS & SOCKETS 插頭和插座

國家 Country	標記 Marking	電壓 Voltage (V)	頻率 Cycles (Hz)	自願 (V) / 強制性 (M)	標準 (S. 安全 / E. 電磁兼容性)
非洲 Africa	南非 South Africa	 220	50	M	S
南美洲 South America	阿根廷 Argentina	 220	50	V/M	S
	巴西 Brazil	 110 / 220	60	V/M	S
北美洲 North America	加拿大 Canada	 120 / 240	60	V	S
	美國 USA	 120 / 240	60	V	S
亞洲 Asia	中國 China	 220	50	M	S E
	中國香港 Hong Kong (China)	 220	50	M	S
	印度 India	 230	50	M	S
				V	S
	以色列 Israel	 230	50	V	S
	日本 Japan	 100 / 200	50 / 60	V	S E
				M	S E
	韓國 Korea	 110 / 220	50 / 60	M	S E
	馬來西亞 Malaysia	 230	50	M	S
	沙特阿拉伯 Saudi Arabia	 110 / 220	50	M	S
	新加坡 Singapore	 230	50	M	S
	中國台灣 Taiwan (China)	 110 / 220	60	M	S E
澳洲 Australia	澳大利亞 Australia	 240	50	M	E
	新西蘭 New Zealand	 240 / 400	50	M	S E
歐洲 Europe	奧地利 Austria	 230	50	V	S
	比利時 Belgium	 230	50	V	S
	丹麥 Denmark	 230	50	V	S
	芬蘭 Finland	 230	50	V	S
	法國 France	 230	50	V	S
	德國 Germany	 230	50	V	S E
	意大利 Italy	 220	50	V	S
	荷蘭 Netherlands	 230	50	V	S
	挪威 Norway	 230	50	V	S
	俄羅斯 Russia	 220 / 380	50	M	S E
	瑞典 Sweden	 230	50	V	S
	瑞士 Switzerland	 230	50	V	S
	英國 United Kingdom	 230	50	V	S

TECHNICAL INFORMATION 技術資訊

UNITED STATES NEMA CONFIGURATIONS美國 NEMA 插頭和插尾

GENERAL - PURPOSE NONLOCKING PLUGS AND RECEPTACLES											
		15 AMPERE		20 AMPERE		30 AMPERE		50 AMPERE		60 AMPERE	
		RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
125V	1	1-15R	1-15P								
250V	2		2-15P	2-20R	2-20P	2-30R	2-30P				
125V	5	5-15R	5-15P	5-20R	5-20P	5-30R	5-30P	5-50R	5-50P		
250V	6	6-15R	6-15P	6-20R	6-20P	6-30R	6-30P	6-50R	6-50P		
277V, A.C.	7	7-15R	7-15P	7-20R	7-20P	7-30R	7-30P	7-50R	7-50P		
125 / 250V	10			10-20R	10-20P	10-30R	10-30P	10-50R	10-50P		
3Ø 250V	11	11-15R	11-15P	11-20R	11-20P	11-30R	11-30P	11-50R	11-50P		
125 / 250V	14	14-15R	14-15P	14-20R	14-20P	14-30R	14-30P	14-50R	14-50P	14-60R	14-60P
3Ø 250V	15	15-15R	15-15P	15-20R	15-20P	15-30R	15-30P	15-50R	15-50P	15-60R	15-60P
3Ø Y 125 / 208V	18	18-15R	18-15P	18-20R	18-20P	18-30R	18-30P	18-50R	18-50P	18-60R	18-60P

LOCKING TYPE PLUGS AND RECEPTACLES							
		15 AMPERE		20 AMPERE		30 AMPERE	
		RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
125V	L1	L1-15R	L1-15P				
250V	L2			L2-20R	L2-20P		
125V	L5	L5-15R	L5-15P	L5-20R	L5-20P	L5-30R	L5-30P
250V	L6	L6-15R	L6-15P	L6-20R	L6-20P	L6-30R	L6-30P
277V, A.C.	L7	L7-15R	L7-15P	L7-20R	L7-20P	L7-30R	L7-30P
480V	L8			L8-20R	L8-20P	L8-30R	L8-30P
600V	L9			L9-20R	L9-20P	L9-30R	L9-30P
250V	L14				L14-20		

TECHNICAL INFORMATION 技術資訊

WIRE GAUGE TABLE 線規對照表

A.W.G. in the table stands for American Wire Gauge (or Brown & Sharp Wire Gauge) 美國線規
S.W.G. stands for British Standard Wire Gauge 英國線規. B.W.G. stands for Birmingham Wire Gauge.

GUAGE 線規			DIAMETER 直徑	AREA 面積	GUAGE 線規			DIAMETER 直徑	AREA 面積	GUAGE 線規			DIAMETER 直徑	AREA 面積
A.W.G. (B & S)	S.W.G.	B.W.G.	mm	mm²	A.W.G. (B & S)	S.W.G.	B.W.G.	mm	mm²	A.W.G. (B & S)	S.W.G.	B.W.G.	mm	mm²
-	7/0	5/0	12.700	128.7	-	-	13	2.413	4.573	-	31	-	0.295	0.06819
-	6/0	-	11.786	109.1	-	13	-	2.337	4.289	29	-	-	0.286	0.06422
4/0	-	-	11.684	107.2	11	-	-	2.305	4.172	-	32	-	0.274	0.05908
-	-	4/0	11.532	104.4	-	-	14	2.108	3.491	30	-	-	0.265	0.05097
-	5/0	-	10.973	94.58	12	-	-	2.053	3.309	-	33	31	0.254	0.05067
-	-	3/0	10.795	91.52	-	14	-	2.032	3.243	-	34	-	0.234	0.04289
3/0	-	-	10.404	85.03	-	15	15	1.829	2.627	-	-	32	0.229	0.04104
-	4/0	-	10.160	81.07	13	-	-	1.828	2.624	31	-	-	0.227	0.04039
-	-	2/0	9.652	73.17	-	-	16	1.651	2.141	-	35	-	0.213	0.03575
-	3/0	-	9.449	70.12	14	-	-	1.628	2.081	-	-	33	0.203	0.03243
2/0	-	-	9.266	67.42	-	16	-	1.626	2.075	32	-	-	0.202	0.03203
-	2/0	-	8.839	61.36	-	-	17	1.473	1.705	-	36	-	0.193	0.02927
-	-	1/0	8.536	58.58	15	-	-	1.450	1.650	33	-	-	0.180	0.02540
1/0	-	-	8.252	53.49	-	17	-	1.422	1.589	-	-	34	0.178	0.02483
-	1/0	-	8.230	53.19	16	-	-	1.291	1.309	-	37	-	0.173	0.02343
-	1	1	7.620	45.60	-	-	18	1.245	1.217	34	-	-	0.160	0.02014
1	-	-	7.348	42.41	-	18	-	1.219	1.167	-	38	-	0.152	0.01824
-	-	2	7.214	40.87	17	-	-	1.150	1.037	35	-	-	0.143	0.01597
-	2	-	7.010	38.60	-	-	19	1.067	0.8938	-	39	-	0.132	0.01370
-	-	3	6.579	33.99	18	-	-	1.024	0.8226	36	-	35	0.127	0.01267
2	-	-	6.544	33.63	-	19	-	1.016	0.8107	-	40	-	0.122	0.01167
-	3	-	6.401	32.18	-	20	-	0.914	0.6561	37	-	-	0.113	0.01005
-	-	4	6.045	28.70	19	-	-	0.912	0.6532	-	41	-	0.112	0.009810
-	4	-	5.893	27.27	-	-	20	0.899	0.6207	-	42	36	0.102	0.008107
3	-	-	5.827	26.66	-	21	21	0.813	0.5191	38	-	-	0.101	0.007968
-	-	5	5.588	24.52	20	-	-	0.812	0.5178	-	43	-	0.0914	0.006567
-	5	-	5.385	22.77	21	-	-	0.723	0.4105	39	-	-	0.0897	0.006319
4	-	-	5.189	21.15	-	22	22	0.711	0.3973	-	44	-	0.0813	0.005189
-	-	6	5.156	20.88	22	-	-	0.644	0.3256	40	-	-	0.0799	0.005012
-	6	-	4.877	18.66	-	23	23	0.635	0.3167	41	45	-	0.0711	0.003973
5	-	-	4.821	18.77	-	-	-	0.610	0.2919	42	-	-	0.0633	0.003151
-	-	7	4.572	16.42	23	-	-	0.573	0.2581	-	46	-	0.0610	0.002919
-	7	-	4.470	15.70	-	24	24	0.559	0.2452	43	-	-	0.0564	0.002499
-	-	8	4.191	13.80	24	-	-	0.511	0.2047	-	47	-	0.0508	0.002027
6	-	-	4.115	13.30	-	25	25	0.508	0.2027	44	-	-	0.0502	0.001982
-	8	-	4.064	12.97	-	26	26	0.457	0.1642	45	-	-	0.0447	0.001572
-	-	9	3.759	11.10	25	-	-	0.455	0.1623	-	48	-	0.0406	0.001297
7	-	-	3.665	10.55	-	27	-	0.417	0.1363	46	-	-	0.0398	0.001246
-	9	-	3.658	10.51	-	-	27	0.406	0.1297	47	-	-	0.0355	0.000984
-	-	10	3.404	9.098	26	-	-	0.405	0.1288	48	-	-	0.0316	0.0007838
8	-	-	3.264	8.368	-	28	-	0.376	0.1110	-	49	-	0.0305	0.0007297
-	10	-	3.251	8.302	27	-	-	0.361	0.1021	49	-	-	0.0281	0.0005216
-	-	11	3.048	7.297	-	-	28	0.356	0.09932	-	50	-	0.0254	0.0005067
-	11	-	2.946	6.818	-	29	-	0.345	0.09372	50	-	-	0.0251	0.0004929
9	-	-	2.906	6.632	-	-	29	0.330	0.08563					
-	-	12	2.769	6.020	28	-	-	0.321	0.08097					
-	12	-	2.642	5.481	-	30	-	0.315	0.07791					
10	-	-	2.588	5.262	-	-	30	0.305	0.07297					