

Constructions

Item	Detail			
Symbol name	SMCD	SML2CD	SML2XCD	
Conductor	Standard	Tinned copper (Thickness of tin plating : Min.1 μ m)		
	SNT2	Anti-Whisker tinned copper (Thickness of tin plating : 0.4+0.2/-0.1 μ m, pure tin plating : 0.1±0.1 μ m)		
Insulation	Insulation layer	Polyester		
	Adhesive layer	Flame-retardant PVC	Flame-retardant polyester	Irradiated flame-retardant polyolefin
	Color	White		
Supporting tape	Material	Polyester		
	Color	Blue		

Properties (Example)

Symbol name	SMCD	SML2CD	SML2XCD	
Conductor	Nominal dimension	0.1×0.8mm	0.035×0.8mm	0.035×0.8mm
	Pitch	1.25mm	1.25mm	1.25mm
Flame Test		VW-1 Pass		
Conductor resistance		Max. 260 Ω/km	Max. 750 Ω/km	Max. 750 Ω/km
Insulation resistance		Min. 1,000M Ω·m		
Dielectric strength (Between adjacent conductors)		AC500V-1min No Dielectric Breakdown	AC500V-1min No Dielectric Breakdown	AC2,500V-1min No Dielectric Breakdown
Flexing test	Sliding test	15mmR Min. 100,000 cycles	15mmR Min. 15 million cycles	5mmR Min. 500,000 cycles
	180° Folding test	Min. 20 cycles	Min. 100 cycles	Min. 50 cycles
Abrasion test (φ 0.5mm, 600g)		Min. 10,000 cycles		

UL Style No. and Products

Symbol name	UL style No.	UL rating	Conductor thickness (B) (mm)	Cable thickness (T) (mm)	Pitch (mm)			
					1.25	1.0	0.5	
SMCD	2896	80°C, 30 V	0.10	0.30	○	○	×	
			0.05	0.25	○	○	×	
	2896 Thin type	80°C, 30 V	0.05	0.17	○	○	×	
			20624	80°C, 60 V	0.10	0.30	○	○
SML2CD	2896	80°C, 30 V	0.05	0.20	○	○	△	
			0.035	0.18	○	○	△	
	2896 Thin type	80°C, 30 V	0.035	0.11	○	○	○	
			20624	80°C, 60 V	0.05	0.20	○	○
			80°C, 60 V	0.035	0.18	○	○	○
				20861	105°C, 60 V	0.05	0.16	○
			80°C, 60 V	0.035	0.14	○	○	○
				21147 Halogen Free	80°C, 60 V	0.05	0.14	○
			80°C, 60 V	0.035	0.12	○	○	○
				20783	105°C, 300 V	0.05	0.20	○
	20941	105°C, 90 V	0.035			0.18	○	○
			0.05	0.18	△	△	○	
			0.035	0.16	△	△	○	

○ : Sumitomo standard △ : Special specification × : Unavailable

※This product is not suitable for automobile application in some cases. Please contact our sales office before you use this product.

※This specification is subject to change without a prior announcement.

Nominal Dimension

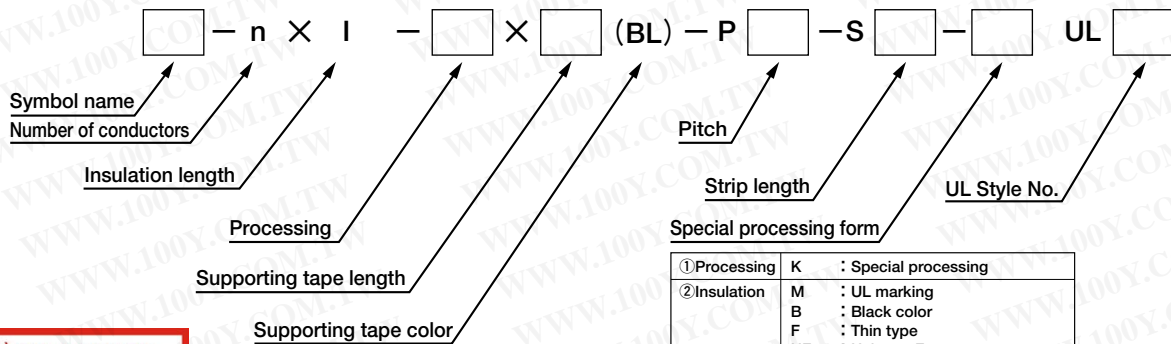
Unit : mm

Item	Dimension		
	1.25	1.0	0.5
Pitch (P)	1.25	1.0	0.5
Conductor width (A)	0.80	0.70	0.60
Margin width (M)	0.85	0.65	0.70
Total pitch (TP)	P×(n-1)		
Cable width (W)	P×(n+1)		
Insulation length (I)	Min. 20 (P1.25, P1.0 AD type : Min. 30)		
Terminal thickness (TT)	0.30		
Strip length (S)	4, 5, 6		
Supporting tape length (H)	6, 8, 10, 15, 20		

n=number of conductors



Nomenclature



①Processing	K	: Special processing
②Insulation	M	: UL marking
	B	: Black color
	F	: Thin type
	HF	: Halogen Free
③Conductor	T	: Conductor width 0.8mm
	T(0.6)	: Conductor width 0.6mm
	N	: Conductor thickness 0.05mm
	N(35)	: Conductor thickness 0.035mm
	SNT2	: Anti-Whisker
④Other	NZ	: NON-ZIF connector type

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Processing Form

	BD Supporting tapes at both ends are on the same side	AD Supporting tapes at both ends are on the opposite side	ES Supporting tapes at one end, and the other end is stripped for soldering(including semi-strip type)
SMCD			
SML2CD SML2XCD			
SML2CD-NZ			

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■ 一般規格

(A) SMCD

兩層結構的絕緣膠外層為聚酯(PET)2um，內層為黏性聚氯乙烯(PVC)100um or 50um，鍍錫壓延軟銅箔依製品間距與厚度不同可選擇不同尺寸。標準 UL 型號為 UL2896(80°C,30V), UL20624(80°C,60V)

(B) SML2CD

兩層結構的絕緣膠外層為聚酯(PET)12um or 25um，內層為黏性聚酯 PET(ADH)45um or 30um，鍍錫壓延軟銅箔依製品間距與厚度不同可選擇不同尺寸。標準 UL 型號為 UL2896(80°C,30V), UL21147(80°C,60V), UL20861(105°C,60V)

■ 規格項目

產品	UL 型號 NO.	導體厚 (mm)	製品厚 (mm)	間距 P(mm)				
	(額定溫度 額定電壓)			2.54	1.25	1.0	0.8	0.5
SMCD	2896	0.1	0.3	○	○	○	△	X
	(80°C, 30V)	0.05	0.25	○	○	○	○	△
	2896 F type	0.05	0.17	○	○	○	○	X
	(80°C, 30V)	0.035	0.15	X	○	○	○	X
	20624	0.1	0.3	○	○	○	△	X
	(80°C, 60V)	0.05	0.25	○	○	○	○	X
SML2CD	2896	0.05	0.2	○	○	○	○	○
	(80°C, 30V)	0.035	0.18	X	○	○	○	○
	2896 F type	0.035	0.11	X	○	○	○	○
	(80°C, 30V)	0.025	0.09	X	○	○	△	△
	20624	0.05	0.2	○	○	○	○	○
	(80°C, 60V)	0.035	0.18	X	○	○	○	○
	20861	0.05	0.17	○	○	○	○	△
	(105°C, 60V)	0.035	0.15	X	○	○	○	○
	21147	0.05	0.144	X	○	○	△	○
(80°C, 60V)	0.035	0.129	X	○	○	△	○	

○：標準 △：特殊 X：不能加工

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Sumi-Card (Flexible Flat Cable)

SML2CD	Sumi-Card Type		
	SMCD	Polyester insulation with PVC adhesive	
	SML2CD	Polyester insulation with Polyester adhesive	
	SMPICD	Polyimide insulation with Polyester adhesive	
20	Number of Conductors = 4 to 40 (50 for Pitch 0.5mm)		
240	Insulation Length in mm		
BD	Terminal Configuration (BD,AD,ES & B)		
10 (BL)	Supporting Tape Length Colour : 'BL' = blue & ' ' = clear/white 'T#' = length of supporting tape without adhesive (for pull-tab type)		
P1.0	Conductor Pitch (1.25, 1.00, 0.80 & 0.50 mm)		
S4	Strip Length in mm		
N(35)	Conductor Thickness (' '=100mm, 'N'=50mm, 'N(35)'=35mm etc.)		
F	Thin Wall Insulation (Standard for Pitch 0.5mm)		
M	UL Marking (according to UL requirement)		
K	Additional Processing (Folding, Taping, Punching, Brackets etc.)		
Other special marking	T(#.#) Non-standard conductor width #.# mm		
	B	Black insulation	
	HF	Halogen-free insulation	
	NZ	Non-ZIF terminal structure	
	SNT2	Pure Tin plating thickness 0.4mm	
	SBP	Tin-Bismuth plating	
	AUP	Gold plating (on the surface of terminals only) This is available for 'SML2CD'-type FFC only.	
(UL2896)	Underwriters Laboratories Inc. cable certification		
	UL style no.	Temperature rating	Voltage rating
	2896	80°C	30V
	20624	80°C	60V
	20861	105°C	60V
	21147	80°C	60V
	[Halogen-free type]	80°C	60V
	Colour of insulation for certain UL style no. can be white(standard) or black		

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Steering Cable (STC) **NEW**

Example: SME-0.03X1.1(AOFC)X5X595-P5.4+3.6-S11.0(3.0)-COIL

SME	Steering Cable (STC) product Polyester insulation with Polyester adhesive
0.03	Conductor Thickness in mm (Customer may request for different specifications) Existing thickness are 0.03 & 0.035
1.1	Conductor Width in mm (Customer may request for different specifications) Existing width are 0.65, 0.70, 1.05, 1.10 & 1.50
AOFC	Conductor Type AOFC = Annealed Oxygen-Free Copper A = Hard Annealed Copper
5	Number of Conductor (minimum is 2)
595	Insulation Length in mm
P5.4+3.6	Combination of Conductor Pitch in mm (Customer may request for different pitch specification) Existing pitches or pitch combinations are 2.2, 1.8, 1.4, 1.75+1.35 & 5.40+3.60
S11.0(3.0)	Strip Length with partial strip length in bracket. Unit is in mm. (Customer may request for different specification)
Coil	Finish Product in Coil form only

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Flat Jumper Lead and Jumper Lead

Example: SMV2J-D-7/0.16(OM-1S)X10X100-P2.0-S3.5F+(4)-M (UL2651)

SMV2J	Types of flat cable			
	SMV2J	Non-flammable PVC insulation		
	SML2VJ	Polyester insulation with PVC adhesive		
D	Terminal Construction (B,C & D)			
7/0.16(OM-1S)	Conductor Size			
	SMV2J	7/0.16(OM-1S)		
	SML2VJ	0.1x0.5(TPBR), 0.1x0.3(TPBR)		
10	Number of Conductors			
100	Insulation Length in mm			
P2.0	Conductor Pitch (2.54, 2.50, 2.00, 1.25 & 1.00mm)			
S3.5F+(4)	Strip Length in mm with special processing			
	#F	Terminal Forming		
	(#)	Terminal Half-Strip		
M	UL Marking (according to UL requirement)			
	Underwriters Laboratories Inc. cable certification			
(UL2651)	Flat cable type UL style no. Temperature rating Voltage rating			
	SMV2J	2651	105°C	300V
	SML2VJ	2896	80°C	60V