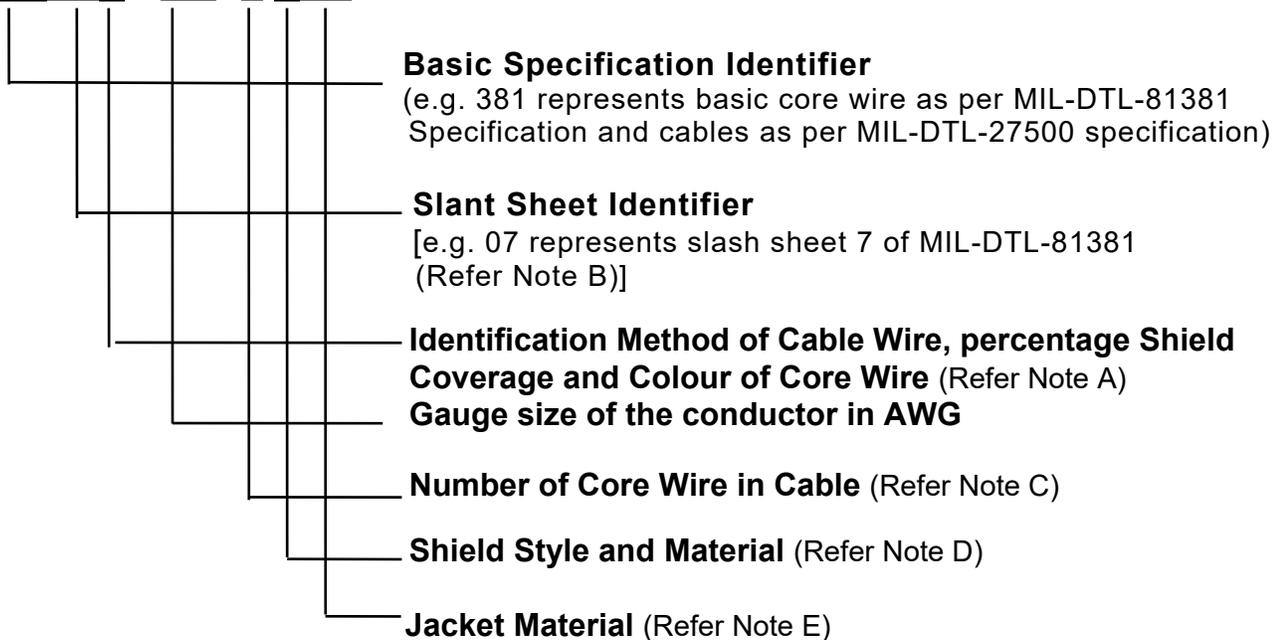


◆ **SAPL PART NUMBERING SYSTEM - CABLE**

381XXX - ## - # XXX



**Example :** 38107D-22-3SKK = 22 AWG, 3 core wire (White, Blue, Orange) as per MIL-DTL-81381/7, Silver plated Copper shielded with 90% coverage, jacket of natural Polyimide tape combined with FEP having Polyimide as a outer surface and heat sealed

◆ **MIL SPECIFICATION PART NUMBERING SYSTEM – CABLE**

M27500	D	22	MR	3	S	12
Specification No. (e.g. MIL-DTL-27500H)	Identification Method of cable wire & shield coverage & core colour (Note A)	Conductor Size (AWG)	Basic wire specification (Note B)	No. of wires in cable (Note C)	Shield style & material (Note D)	Jacket Material (Note E)

**Example:**  
**M27500D22MR3S12** = 22 AWG, 3 core wire (White, Blue, Orange) as per MIL-DTL-81381/7, Silver plated Copper shielded with 90% coverage, jacket of natural Polyimide tape combined with FEP having Polyimide as a outer surface and heat sealed

# ***POLYIMIDE insulated SPACE QUALIFIED CABLES*** FROM THE PIONEERS IN INDIA

**Note A: ID Method of Cable wire, % Shield Coverage and Colour of Core Wire**

A cable with a minimum % shield coverage specified as below:

For 85% Shield Coverage	For Optional Identification Method "A" ID method Colours of Core Wires	For 90% shield coverage
A	As per Table III A of MIL-DTL-27500H	D

**Note:** When ID method of cable wire OR % shield coverage OR colour of core wire (all or anyone) is not as per MIL specification, it shall be denoted by blank space in MIL & SAPL part number in place of A & D.

**Note B: Basic Wire Specification**

Basic Wire Specification	Symbol in	
	MIL Part No.	SAPL Part No.
MIL-W -81381/7	MR	07
MIL-W -81381/8	MS	08
MIL-W -81381/9	MT	09
MIL-W -81381/10	MV	10
MIL-W -81381/11	MW	11
MIL-W -81381/12	MY	12
MIL-W -81381/13	NA	13
MIL-W -81381/14	NB	14
MIL-W -81381/17	NE	17
MIL-W -81381/18	NF	18
MIL-W -81381/19	NG	19
MIL-W -81381/20	NH	20
MIL-W -81381/21	NK	21
MIL-W -81381/22	NL	22

**Note C: No. of Core Wires in Cable:** Designated by numerical digit 1 to 9

**Note D: Shield Style and Material**

Shield Style Symbol		Shield Material	Max. Temperature Limit for Shield Material
Single	Double		
U	--	No shield	---
S	W	Silver plated copper, round	200° C (392° F)
N	Y	Nickel plated copper, round	260° C (500° F)
T	V	Tin coated copper, round	150° C (302° F)

**Note E: Jacket Material**

Single jacket symbol		Double Jacket Symbol	Jacket material	Max. Temperature Limit for Jacket Material
In MIL Part No.	In SAPL Part No.			
00	00	00	No jacket	---
11	K	61	Tape of natural Polyimide combined with clear fluorinated ethylene propylene (FEP) wrapped and heat sealed with (FEP) outer surface	200° C (392° F)
12	KK	62	Tape of natural Polyimide combined with clear fluorinated ethylene propylene (FEP) wrapped and heat sealed with Polyimide outer surface	200° C (392° F)



## **sanghvi**

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