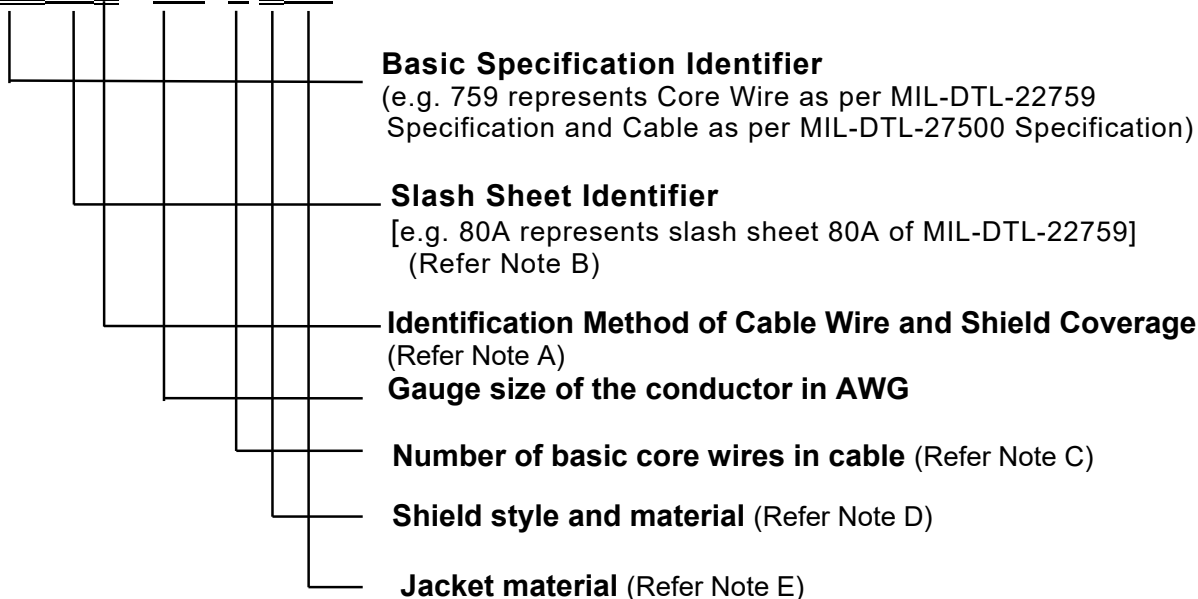


◆ SAPL PART NUMBERING SYSTEM - CABLE

759XXX - ## - # XXX



Example: 75986A-22-3S06 = 22 AWG, 3 core wire (White, Blue, Orange) as per MIL-DTL-22759/86A; Silver Plated Copper Shield with 85% coverage; taped and heat sealed white PTFE jacketed cable.

◆ MIL SPECIFICATION PART NUMBERING SYSTEM – CABLE

M27500	A	22	WJ	3	S	06
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:
M27500A22WJ3S06 = 22 AWG, 3 core wire (White, Blue, Orange) as per MIL-DTL-22759/86A, Silver plated Copper shielded with 85% coverage, taped and heat sealed white PTFE jacketed cable

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.



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AEROSPACE (P.) LTD.

Behind Lalit Warehouse, Near Cozy Hotel,
Narol-Sarkhej Highway, Narol, Ahmedabad - 382 405. India.
Tel. : ++91-79-2535 0756, 2532 3460 Fax : ++91-79-2535 8738
E-mail : info@sanghviaerospace.com
Website : www.sanghviaerospace.com

Polyimide + PTFE Insulated Aerospace Wires & Cables

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Note B: Basic Wire Specification Indicator

Basic wire specification	Symbol in	
	MIL Part No.	SAPL Part No.
MIL-DTL-22759/80A	WB	80
MIL-DTL-22759/81A	WC	81
MIL-DTL-22759/82A	WE	82
MIL-DTL-22759/83A	WF	83
MIL-DTL-22759/84A	WG	84
MIL-DTL-22759/85A	WH	85
MIL-DTL-22759/86A	WJ	86
MIL-DTL-22759/87A	WK	87
MIL-DTL-22759/88A	WL	88
MIL-DTL-22759/89A	WM	89
MIL-DTL-22759/90A	WN	90
MIL-DTL-22759/91A	WP	91
MIL-DTL-22759/92A	WR	92

Note C: No. of Core Wires in Cable is designated by numerical digit 1 to 10

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

Jacket Symbol		Jacket Material	Max. Temperature Limit for Jacket Material
Single	Double		
00	00	No jacket	---
06	56	Taped and heat sealed White Poly Tetra Fluoro Ethylene (PTFE)	260° C (500° F)
07	57	White Poly Tetra Fluoro Ethylene (PTFE) treated glass braid impregnated and coated with PTFE finisher over pre-sintered PTFE tape	260° C (500° F)
24	74	Tape layer of White Poly Tetra Fluoro Ethylene (PTFE) wrapped over a tape layer of natural Polyimide combined with FEP and heat sealed	260° C (500° F)

Colours for Core Wires in Cable - Table IIIA of MIL-DTL-27500H

Wire No.in Cable	Identification Colours for Core Wire Number Wise in cable									
	1	2	3	4	5	6	7	8	9	10
1	White									
2	White	Blue								
3	White	Blue	Orange							
4	White	Blue	Orange	Green						
5	White	Blue	Orange	Green	Red					
6	White	Blue	Orange	Green	Red	Black				
7	White	Blue	Orange	Green	Red	Black	Yellow			
8	White	Blue	Orange	Green	Red	Black	Yellow	Violet		
9	White	Blue	Orange	Green	Red	Black	Yellow	Violet	Gray	
10	White	Blue	Orange	Green	Red	Black	Yellow	Violet	Gray	Brown



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Website : www.sanghviaerospace.com