

MIL-C-13777/6B
1 September 1966
SUPERSEDING
MIL-C-13777/6A
5 November 1963

MILITARY SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL
60, 65, AND 78 CONDUCTORS

The complete requirements for procuring the cable described herein shall consist of this document and the latest issue of Specification MIL-C-13777.

REQUIREMENTS:

Dimensions and configuration: See applicable figures and design data for the following types:

601330
601495S

601665S
601734S

601845S
601931S

651125
782166S

FSC 6145

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DESIGN DATA

Type Designation	601330	601495S	60191S
Figure No.-----	1	2	1
Total Wires-----	60	60	60
No. of Conductors & AWG #	60/#18	51/#18	9/#18S 60/#18S
Insulation			
Min average thickness----	0.015"	0.015"	0.015"
Spark Test Voltage-----	3000	3000	3000
Inspection Test Voltage--	1500	1500	1500
Cabling			
Layer No. 1-----	Filler	Filler	Filler
Layer No. 2-----			
(a) Number of wires----	6	6	6
(b) AWG #-----	#18	#18	#18S
(c) Maximum Lay-----			
Layer No. 3-----			
(a) Number of wires----	12	9	12
(b) AWG #-----	#18	#18S	#18S
(c) Maximum Lay-----			
Layer No. 4-----			
(a) Number of wires----	18	20	18
(b) AWG #-----	#18	#18	#18S
(c) Maximum Lay-----			
Layer No. 5-----			
(a) Number of wires----	24	25	24
(b) AWG #-----	#18	#18	#18S
(c) Maximum Lay-----	9.00"	12.00"	10.00"
Sheath			
No. of Layers-----	2	2	2
Total thickness Min-----	0.141"	0.141"	0.188"
Minimum OD Cable-----	1.300"	1.470"	1.881"
Maximum OD Cable-----	1.360"	1.520"	1.981"

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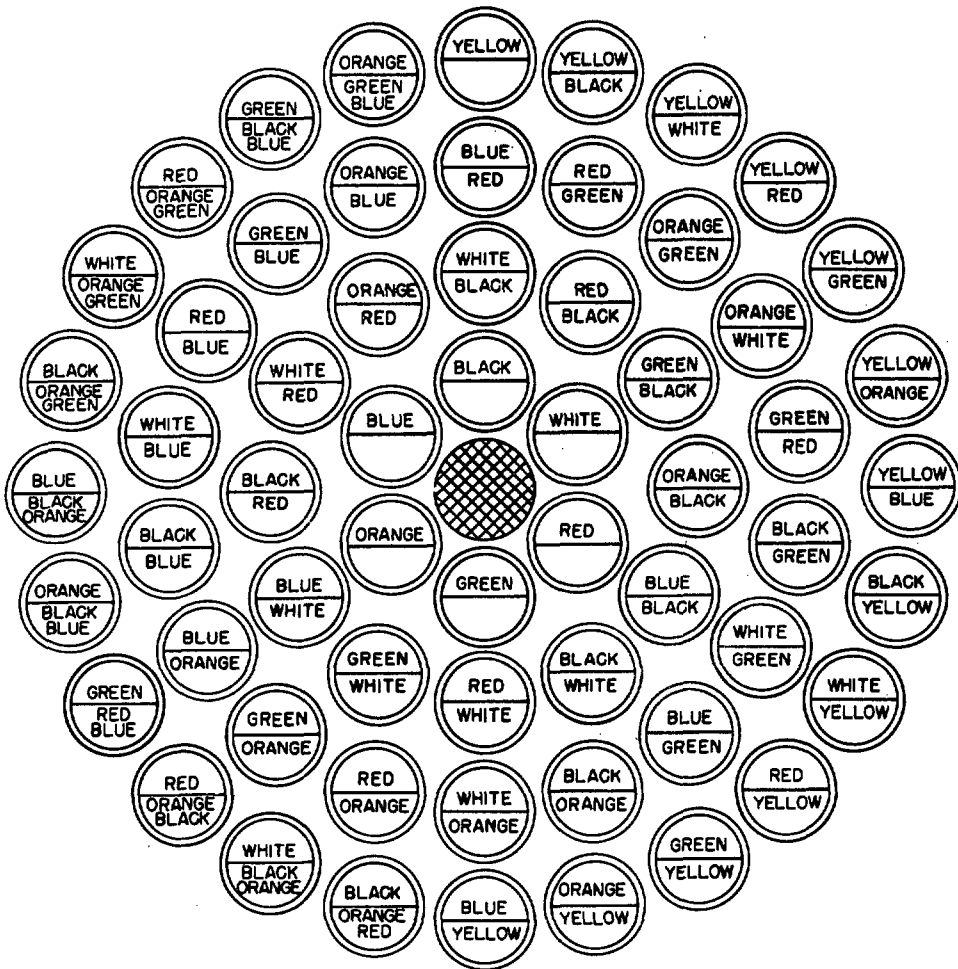
Type Designation	601665S	601734S	601843S	651125
Figure No.-----	3	4	5	6
Total Wires-----	60	60	60	65
No. of Conductors & AWG #	(1)	(4)	(7)	65/#20
Insulation				
Min average thickness----	0.015"	0.015"	0.015"	0.015"
Spark Test Voltage-----	3000	3000	3000	3000
Inspection Test Voltage--	1500	1500	1500	1500
Cabling				
Layer No. 1-----	Filler	Filler	Filler	Filler in Cent.
(a) Number of wires----				8
(b) AWG #-----				#20
(c) Maximum Lay-----				
Layer No. 2-----				
(a) Number of wires----	(3)	(5)	(8)	13
(b) AWG #-----				#20
(c) Maximum Lay-----				
Layer No. 3-----				
(a) Number of wires----	15/#18S	20	(9)	19
(b) AWG #-----				#20
(c) Maximum Lay-----				
Layer No. 4-----				
(a) Number of wires----	31/#18	(6)	(10)	25
(b) AWG #-----				#20
(c) Maximum Lay-----	11.00"	11.50"	13.00"	
Sheath				
No. of Layers-----	2	2	2	2
Total thickness Min-----	0.156"	0.156"	0.109"	0.098"
Minimum OD Cable-----	1.615"	1.684"	1.820"	1.100"
Maximum OD Cable-----	1.715"	1.784"	1.870"	1.150"

- (1) 35/#18, 5 Prs. Tw & Sh., 15/#18S
- (2) Deleted
- (3) 5 Prs. Tw. & Sh., 4/#18
- (4) 20/#18, 20 Prs. Tw. & Sh.
- (5) 6 Prs. Tw. & Sh.
- (6) 14 Prs. Tw. & Sh.
- (7) 20 Prs. Tw. & Sh., 20 Sing. Sh.
- (8) 5 Prs. Tw. & Sh., 3 Singles Sh.
- (9) 17 Shielded
- (10) 15 Prs. Tw. & Sh.

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DESIGN DATA

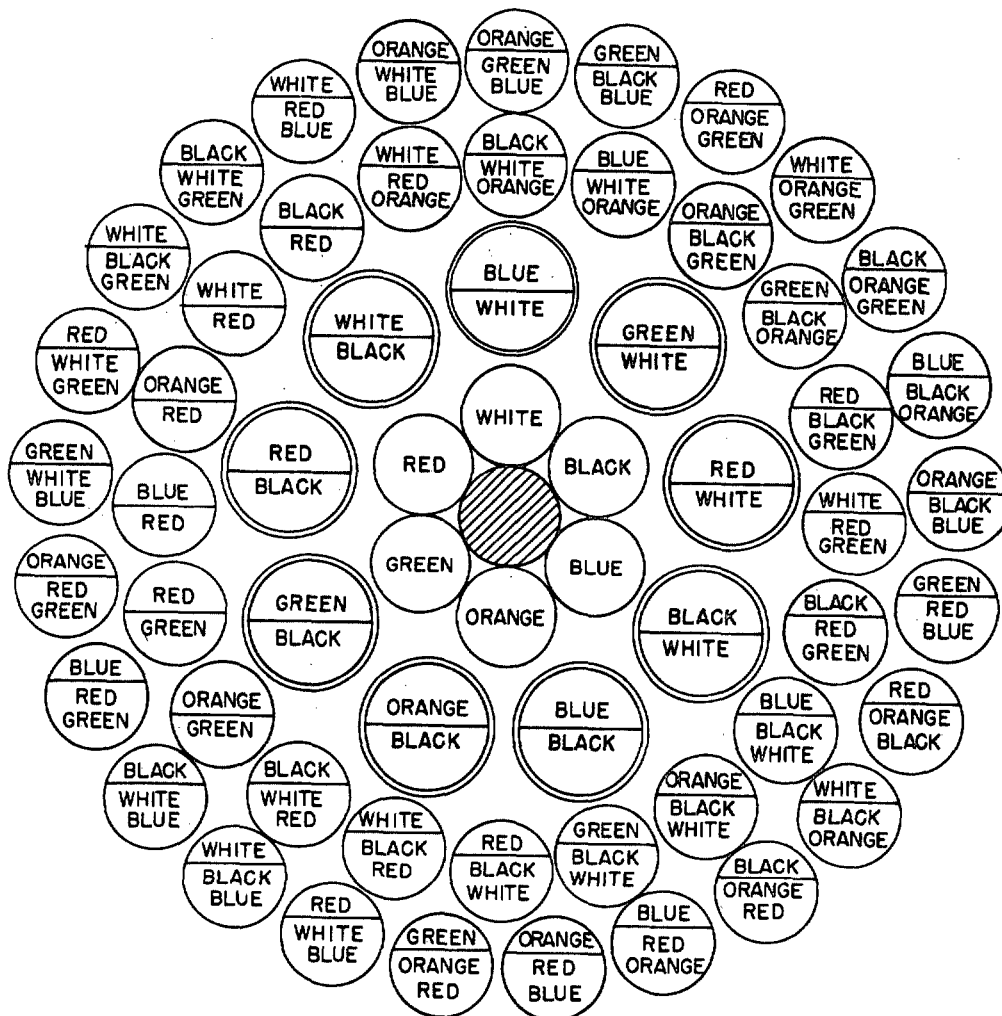
Type Designation	782166S				
Figure No.-----	7				
Total Wires-----	78				
No. of Conductors & AWG #	64/#20	4/#20S	2/#14	2/#8	6/#4
Insulation					
Min average thickness----	0.015"		0.018"	0.025"	0.063"
Spark Test Voltage-----			3000		
Inspection Test Voltage--	1500		1800	2500	3500
Cabling					
Min average thickness----					
Layer No. 1-----	Filler				
Layer No. 2-----					
(a) Number of wires----	2	6	12		
(b) AWG #-----	#14	#4			4/#20S
(c) Maximum Lay-----			8.00"		
Layer No. 3-----					
(a) Number of wires----			66		
(b) AWG #-----		2/#8			64/#20
(c) Maximum Lay-----			12.00"		
Sheath					
No. of Layers-----	2				
Total thickness Min-----	0.183"				
Minimum OD Cable-----	2.116				
Maximum OD Cable-----	2.216"				
Custodians:	Preparing activity:				
Army - MU	Army - MU				
Navy - SH					
Air Force - 17	(Project 6145-0423)				
Reviewer:					
Army - MI, E1, MO					
Navy - SH - OS					
Air Force - 15					
Users:					
Army - CE					
Navy - MC					
Air Force - 11					



CABLE TYPES: 601330 601931S

NOTE: DOUBLE CIRCLE INDICATES SHIELDED CONDUCTORS

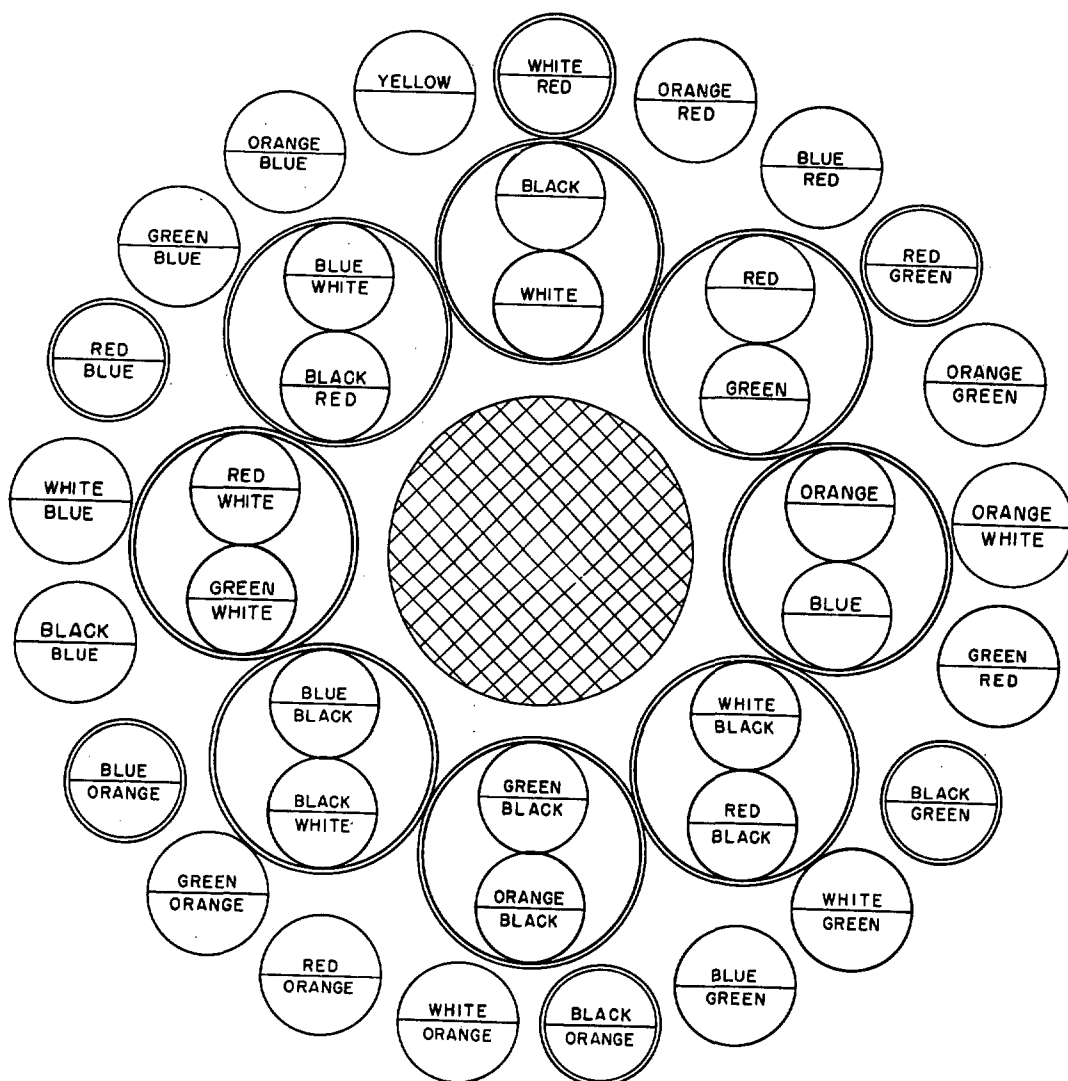
FIGURE 1



NOTE: DOUBLE CIRCLE INDICATES SHIELDED CONDUCTORS

FIGURE 2

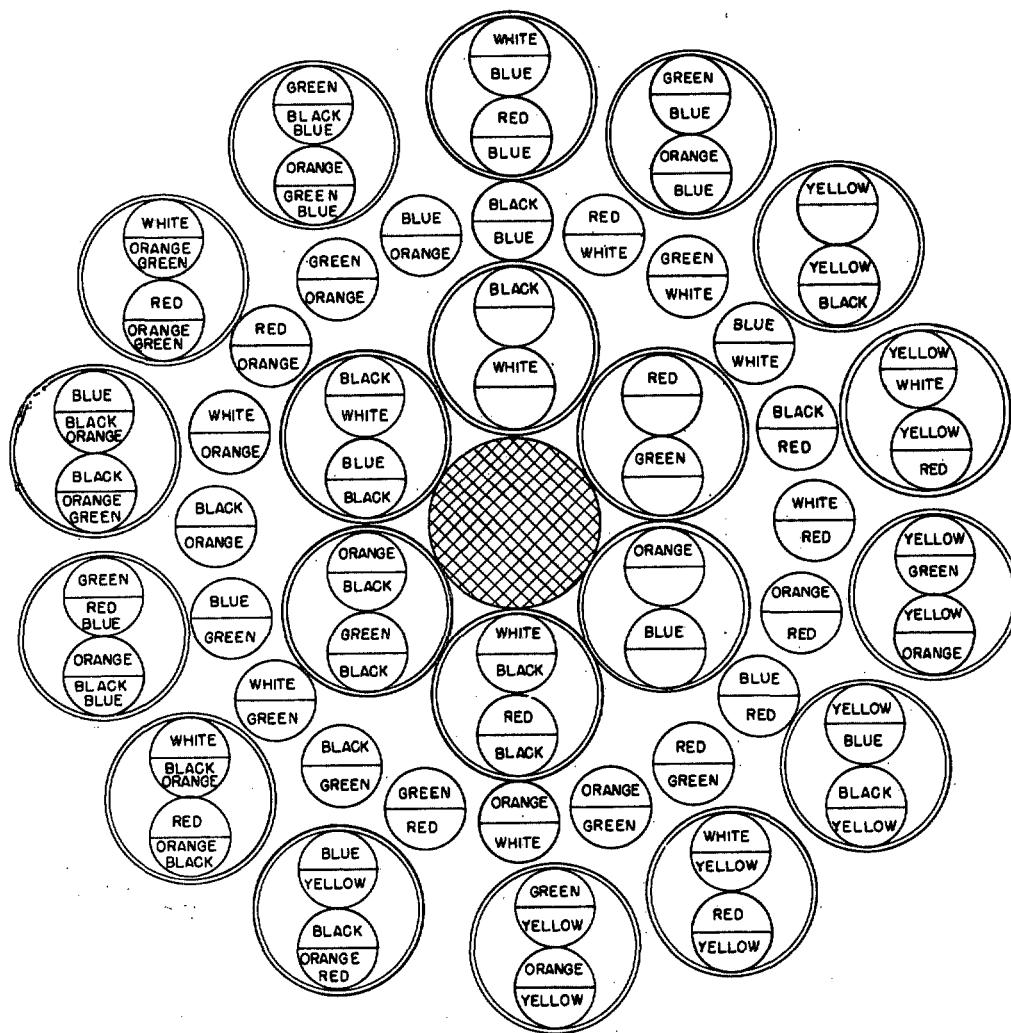
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CABLE TYPE: 601665S

NOTE: DOUBLE CIRCLE INDICATES SHIELDED CONDUCTORS

FIGURE 3



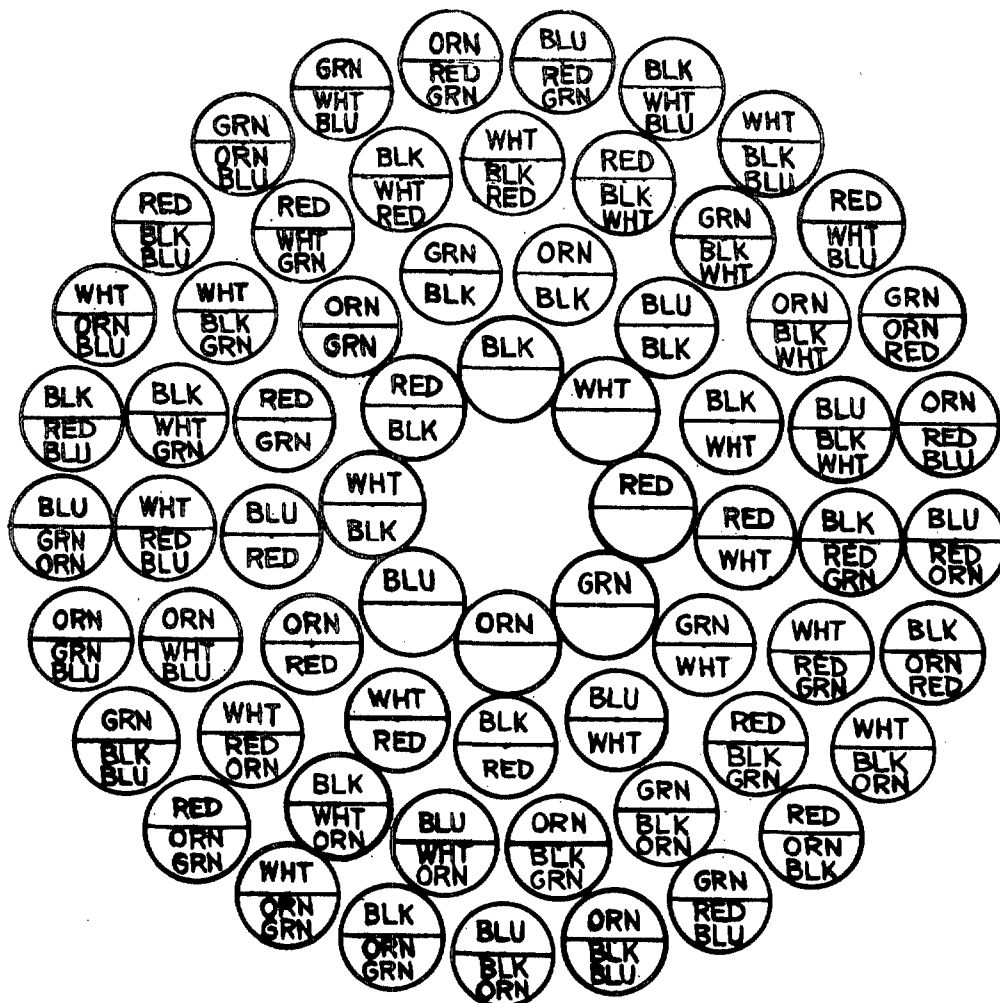
NOTE: DOUBLE CIRCLE INDICATES SHIELDED CONDUCTORS

FIGURE 4



FIGURE 5

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CABLE TYPE: 651125

FIGURE 6

