

## HOW TO ORDER

## AMPHENOL DESIGNATION - COMPOSITE AND METALLIC VERSIONS

Series	TV	P00	R	Q	W	17-75	P	A	-	-
<b>TV:</b> Metallic shell										
<b>CTV:</b> Composite shell										
<b>Shell type</b>										
<b>P00:</b> Square flange receptacle: 175°C (O.D. cadmium, g.zinc cobalt, ni-PTFE, b.zinc nickel)										
<b>PS00:</b> Square flange receptacle: 200°C *** (nickel, s.steel, bronze)										
<b>07:</b> Jam nut receptacle: 175°C (O.D. cadmium, g.zinc cobalt, ni-PTFE, b.zinc nickel)										
<b>S07:</b> Jam nut receptacle: 200°C *** (nickel, s.steel, bronze)										
<b>06:</b> Straight plug: 175°C (O.D. cadmium, g.zinc cobalt, ni-PTFE, b.zinc nickel)										
<b>S06:</b> Straight plug: 200°C *** (nickel, s.steel, bronze)										
<b>Contact type</b>										
<b>R:</b> Crimp contacts (or connector delivered without contact) Omit for PC tail contacts, Durmalon plating and black zinc nickel plating										
<b>Ground Plane receptacle and Quadrax contact options</b>										
<b>G:</b> conductive insert										
<b>Q:</b> insert compatible with quadrax or differential twinax contacts **										
<b>GQ:</b> conductive insert compatible with quadrax or differential twinax contacts Omit for standard receptacle (without conductive insert) and insert without quadrax contact										
<b>Class</b>										
<b>W:</b> Olive Drab Cadmium plating (on aluminium or composite)										
<b>F:</b> Nickel Plating (on aluminium or composite)										
<b>K:</b> Passivated Stainless Steel										
<b>S:</b> Nickel plated Stainless Steel										
<b>B:</b> Marine Bronze (copper aluminium alloy)										
<b>DT:</b> Durmalon plating (Nickel - PTFE)										
<b>Z:</b> Green zinc Cobalt plated aluminium										
<b>ZN:</b> Black Zinc Nickel plated aluminium from Amphenol Europe (standard version)*										
<b>DZ:</b> Black Zinc Nickel plated aluminium from Amphenol US										
<b>PC Tail Contacts</b>										
Omit for crimp contacts										
<b>CI:</b> standard PCB contacts										
<b>LI:</b> long tail PCB contacts										
<b>Shell size and Contact arrangement ***</b> See pages 8 to 11										
<b>Contact type</b>										
<b>P:</b> Pin (500 cycles)										
<b>S:</b> Socket (500 cycles)										
<b>H:</b> Pin (1500 cycles - CTV only)										
<b>J:</b> Socket (1500 cycles - CTV only)										
<b>Polarization</b> Blank for normal or <b>A, B, C, D, E.</b> See coding system on page 13										
<b>Contacts</b> Omit for connectors delivered with contacts										
<b>LC:</b> Connector delivered without contacts										
<b>Deviation</b>										
<b>F404 / F404LF / F404LFC:</b> Tinned PCB contacts (lead tinned / silver tinned / silver-copper tinned)										
<b>F485</b> (for TVS06 RB only): Coupling nut conforms to CECC75 - 201 - 002A (for arctic gloves)										
<b>F459 / F459LF / F459LFC:</b> stand-off receptacle (lead tinned / silver tinned / silver-copper tinned) For other deviations (FXXX), please <i>consult us</i> .										





\*Amphenol has two different process of Black Zinc Nickel plating, both MIL-DTL-38999 QPL qualified.

\*\* For Quadrax or dif. Twinax compatible inserts, please omit the "S" corresponding to 200°C compatibility when applicable, in the P/N. Ex: CTV07RGQF17 52PLC  
For other arrangements, shell, coding or deviation, please consult us.

\*\*\*For high-density contact arrangement, please omit the « S » corresponding to 200°C compatibility in the P/N. High-density inserts are +175°C maxi compatible. Ex: TVP 00 RF 09 09 S

## HOW TO ORDER

### MILITARY DESIGNATION - COMPOSITE AND METALLIC VERSIONS - CRIMP CONTACTS ONLY

Series	JD38999/	20	F	H	53	P	A
<b>Shell type</b>							
20: Square flange receptacle							
24: Jam nut receptacle							
26: Straight plug							
<b>Shell material and finish</b>							
<u>Composite</u>							
J: Olive drab cadmium plated 175°C							
M: Electroless nickel plated 200°C							
<u>Aluminium</u>							
W: Olive drab cadmium plated 175°C							
F: Electroless nickel plated 200°C							
T: Nickel PTFE plated 175°C							
Z: Black Zinc Nickel plated aluminium 175°C *  							
<u>Stainless steel</u>							
K: Passivated 200°C, firewall capability							
S: Nickel plated 200°C, firewall capability							
<b>Shell size</b>							
A B C D E F G H J MIL							
09 11 13 15 17 19 21 23 25 Amphenol							
<b>Contact arrangement</b>							
See pages 8 to 11							
<b>Contact and connector type</b>							
A: Without pin contact							
B: Without socket contact							
P: With pin contacts							
S: With socket contacts							
H: With 1500 cycles pin contacts (only valid for composite)							
J: With 1500 cycles socket contacts (only valid for composite)							
<b>Polarization</b>							
N for normal or A, B, C, D, E. See coding system on page 13							

\* Amphenol has two different process of Black Zinc Nickel plating, both MIL-DTL-38999 QPL qualified.

### EN3645 (EUROPEAN NORM ORDERING INFORMATION, ASD-STAN) -CRIMP CONTACTS ONLY

Standard number	EN3645	F	0	G	N	16	A	N
<b>Class:</b>								
W: Crimp version, Aluminum Olive drab cadmium plated, 175°C								
F: Crimp version, Aluminum Nickel plated, 200°C								
J: Crimp version, Composite material Olive Drab cadmium plated, 175°C								
M: Crimp version, Composite material Nickel plated, 200°C								
K: Crimp version, Passivated Stainless Steel, 200°C								
<b>Shell style:</b>								
0: Square flange receptacle								
7: Jam Nut Receptacle								
6: Plug								
<b>Shell size code:</b>								
A for 09, B for 11, C for 13, D for 15, E for 17, F for 19, G for 21, H for 23, J for 25								
<b>Insert type:</b>								
N: standard								
G: Grounded cavities								
Q: Quadrx insert, grounded								
L: Quadrx insert, non grounded								
<b>Contact arrangement according to EN3645-002:</b>								
See page 8 to 11								
<b>Contact code:</b>								
M: with Pin contacts                      F: with Socket contacts                      coax, twinax, quadrx contacts are not supplied with the connector								
A: without Pin contacts                      B: without Socket contacts								
<b>Polarization (Key Ways rotation):</b>								
N, A, B, C, D, E. See coding system on page 13								

# HOW TO ORDER

## AMPHENOL DESIGNATION - HERMETIC VERSIONS

<b>Series</b>	<b>TV</b>	<b>SI</b>	<b>YN</b>	<b>11</b>	<b>35</b>	<b>P</b>	<b>-</b>
<b>Shell type</b>							
PS02: Square flange receptacle							
S07: Jam nut receptacle							
SI: Solder mounting receptacle							
<b>Shell material and finish</b>							
Y: Stainless steel passivated							
YN: Stainless steel nickel plated							
<b>Shell size:</b>							
09/11/13/15/17/19/21/23/25							
<b>Contact arrangement</b>							
See pages 8 to 11 (insert arrangements marked with "Y")							
<b>Contact type</b>							
P: Pin							
<b>Polarization</b>							
Blank for normal or A, B, C, D, E. See coding system on page 13.							

## MILITARY DESIGNATION - HERMETIC VERSIONS

<b>Connector type</b>	<b>JD38999/</b>	<b>25</b>	<b>N</b>	<b>B</b>	<b>35</b>	<b>P</b>	<b>N</b>
<b>Shell type</b>							
21: Square flange receptacle							
23: Jam nut receptacle							
25: Solder mounting receptacle							
<b>Shell material and finish</b>							
Y: Stainless steel passivated							
N: Stainless steel nickel plated							
<b>Shell size</b>							
A B C D E F G H J MIL							
09 11 13 15 17 19 21 23 25 Amphenol							
<b>Contact arrangement</b>							
See pages 8 to 11 (insert arrangements marked with "Y")							
<b>Contact type</b>							
P: Pin.							
<b>Polarization</b>							
N for normal or A, B, C, D, E. See coding system on page 13							

## EN3645 (EUROPEAN NORM ORDERING INFORMATION, ASD-STAN)

FOR INFORMATION ONLY - Amphenol is not qualified

<b>Standard number</b>	<b>EN3645</b>	<b>Y0</b>	<b>G</b>	<b>N</b>	<b>35</b>	<b>M</b>	<b>N</b>
<b>Shell style:</b>							
Y0: Hermetic square flange receptacle, Stainless steel 200°C							
Y1: Hermetic round flange receptacle attached by soldering, Stainless steel 200°C							
Y7: Hermetic jam nut receptacle, Stainless steel 200°C							
<b>Shell size code:</b>							
A for 09, B for 11, C for 13, D for 15, E for 17, F for 19, G for 21, H for 23, J for 25							
N for standard insert type							
<b>Contact arrangement according to EN3645-002:</b>							
See page 8 to 11 (except arrangements containing coaxial or triaxial contacts)							
<b>Contact code:</b>							
M: Pin with solder cup							
A: Pin with eyelet							
<b>Polarization (Key Ways rotation):</b>							
N, A, B, C, D, E. See coding system on page 13							

## HOW TO ORDER

### AMPHENOL DESIGNATION - MIL-STD-1760 LANYARD RELEASE PLUGS

#### LOW PROFILE VERSION

Series	TV	FB	RW	25-11	P	E
<b>FB:</b> MIL-STD-1760 lanyard release plug						
<b>RW:</b> Olive drab cadmium plated						
<b>Arrangement</b> 25-11, 25-20: see pages 11 and 13						
<b>Contact type and polarization</b> G: 25-11 arrangement, pin contacts only P: 25-20 arrangement, pin contacts only						
<b>Lanyard length</b> Other lengths are available upon request. See table A on page 25.						

### MILITARY DESIGNATION - MIL-STD-1760 LANYARD RELEASE PLUGS

#### LOW PROFILE VERSION

Series	JD38999/	31	W	E	11	N	1
<b>Shell and contact type</b> 31: Plug with pin contacts, per MIL-STD-1760							
<b>Shell finish</b> W: Olive drab cadmium plated 175°C							
<b>Lanyard length.</b> See table A on page 25.							
<b>Contact arrangement</b> 11: 25-11 arrangement 20: 25-20 arrangement							
<b>Polarization</b> N for 25-20 arrangement. See coding on page 13. A for 25-11 arrangement.							
<b>Plug locking ring type</b> 1: Ø 51mm (low profile) 2: Ø 68mm (please consult us)							

For MIL-STD-1760 Type II connectors, please consult us.

# HOW TO ORDER

## AMPHENOL DESIGNATION - LANYARD RELEASE PLUGS

### STANDARD VERSION

<b>Shell finish</b> 88: Olive-drab cadmium plated 91: Nickel plated	88	5565	20	K	P
<b>Connector type</b>					
<b>Shell size and arrangement code</b> See table I on page 26 Others, please consult us					
<b>Lanyard length</b> A to Z code (see table III on page 26)					
<b>Contact type and polarization</b> See chart below and coding on page 13.					

### POLARIZATION

MS Code	Socket contact Amphenol code	MS Code	Pin contact Amphenol code
SN	S (normal)	PN	P (normal)
SA	H	PA	G
SB	J	PB	I
SC	L	PC	K
SD	N	PD	M
SE	T	PE	R

## MILITARY DESIGNATION - LANYARD RELEASE PLUGS

### STANDARD VERSION

<b>Connector type</b> JD38999/	29	W	D	35	E	N
<b>Shell and contact type</b> 29: Plug with pin contacts 30: Plug with socket contacts						
<b>Shell finish</b> W: Olive drab cadmium plated F: Nickel plated						
<b>Shell size</b> A* B C D E F G H J MIL 09* 11 13 15 17 19 21 23 25 Amphenol * Please consult us						
<b>Contact arrangement</b> See table I on page 26.						
<b>Lanyard length</b> A to Z code (see table III on page 26)						
<b>Polarization</b> N for normal or A, B, C, D, E. See coding on page 13.						

## HOW TO ORDER

### EN3645 (EUROPEAN NORM ORDERING INFORMATION, ASD-STAN) - LANYARD RELEASE PLUGS

FOR INFORMATION ONLY - Amphenol is not qualified

<b>Standard number</b>	<b>EN3645</b>	<b>W</b>	<b>8</b>	<b>G</b>	<b>N</b>	<b>35</b>	<b>A</b>	<b>N</b>	<b>F</b>															
<b>Class:</b>																								
<b>W:</b> Crimp version, Aluminum Olive drab cadmium plated, 175°C																								
<b>F:</b> Crimp version, Aluminum Nickel plated, 200°C																								
<b>Shell style:</b>																								
<b>8:</b> Lanyard Release Plug Type 1																								
<b>9:</b> Lanyard Release Plug Type 2 (Class W only, Shell size J and contact arrangement 20 only)																								
<b>Shell size code:</b>																								
A for 09, B for 11, C for 13, D for 15, E for 17, F for 19, G for 21, H for 23, J for 25																								
<b>Insert type:</b>																								
<b>N:</b> standard																								
<b>G:</b> Grounded cavities																								
<b>Contact arrangement according to EN3645-002:</b>																								
See page 8 to 11																								
<b>Contact code:</b>																								
<b>M:</b> with Pin contacts					<b>F:</b> with Socket contacts																			
<b>A:</b> without Pin contacts					<b>B:</b> without Socket contacts																			
<b>Polarization (Key Ways rotation):</b>																								
<b>N, A, B, C, D, E.</b>																								
<b>Code for lanyard length</b>																								
<b>Code</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>P</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
L ± 6	102	115	127	140	153	166	178	191	203	216	229	242	254	267	280	293	305	318	331	356	381	407	432	458

# CROSS REFERENCES

Shell material	MIL-DTL-38999 Series III	EN 3645	AMPHENOL
Composite shell	JD38999/20J X XX A °	EN3645 J0 X N XX A °	CTVP00RW ■■■ ## P ^ LC
			CTVP00WCI ■■■ ## P ^ LC
		EN3645 J0 X L XX A °	CTVP00RQW ■■■ ## P ^ LC
		EN3645 J0 X Q XX A °	CTVP00RGQW ■■■ ## P ^ LC
	JD38999/20M X XX A °	EN3645 M0 X N XX A °	CTVPS00RF ■■■ ## P ^ LC
			CTVPS00FCI ■■■ ## P ^ LC
		EN3645 M0 X L XX A °	CTVP00RQF ■■■ ## P ^ LC
		EN3645 M0 X Q XX A °	CTVP00RGQF ■■■ ## P ^ LC
	JD38999/24J X XX A °	EN3645 J7 X N XX A °	CTV07RW ■■■ ## P ^ LC
			CTV07WCI ■■■ ## P ^ LC
		EN3645 J7 X L XX A °	CTV07RQW ■■■ ## P ^ LC
		EN3645 J7 X Q XX A °	CTV07RGQW ■■■ ## P ^ LC
	JD38999/24M X XX A °	EN3645 M7 X N XX A °	CTVS07RF ■■■ ## P ^ LC
			CTVS07FCI ■■■ ## P ^ LC
		EN3645 M7 X L XX A °	CTV07RQF ■■■ ## P ^ LC
		EN3645 M7 X Q XX A °	CTV07RGQF ■■■ ## P ^ LC
JD38999/26J X XX A °	EN3645 J6 X N XX A °	CTV06RW ■■■ ## P ^ LC	
	EN3645 J6 X L XX A °	CTV06RQW ■■■ ## P ^ LC	
JD38999/26M X XX A °	EN3645 M6 X N XX A °	CTVS06RF ■■■ ## P ^ LC	
	EN3645 M6 X L XX A °	CTV06RQF ■■■ ## P ^ LC	
Aluminium shell	JD38999/20W X XX A °	EN3645 W0 X N XX A °	TVP00RW ■■■ ## P ^ LC
			TVP00WCI ■■■ ## P ^ LC
		EN3645 W0 X L XX A °	TVP00RQW ■■■ ## P ^ LC
	JD38999/20Z X XX A °		TVP00ZN ■■■ ## P ^ LC
			TVP00ZNCI ■■■ ## P ^ LC
			TVP00RQZN ■■■ ## P ^ LC
			TVP00RGQZN ■■■ ## P ^ LC
		EN3645 W0 X Q XX A °	TVP00RGQW ■■■ ## P ^ LC
	JD38999/20F X XX A °	EN3645 F0 X N XX A °	TVPS00RF ■■■ ## P ^ LC
			TVPS00FCI ■■■ ## P ^ LC
		EN3645 F0 X L XX A °	TVP00RQF ■■■ ## P ^ LC
		EN3645 F0 X Q XX A °	TVP00RGQF ■■■ ## P ^ LC
	JD38999/24W X XX A °	EN3645 W7 X N XX A °	TV07RW ■■■ ## P ^ LC
			TV07WCI ■■■ ## P ^ LC
		EN3645 W7 X L XX A °	TV07RQW ■■■ ## P ^ LC
		EN3645 W7 X Q XX A °	TV07RGQW ■■■ ## P ^ LC
	JD38999/24Z X XX A °		TV07ZN ■■■ ## P ^ LC
			TV07ZNCI ■■■ ## P ^ LC
			TV07RQZN ■■■ ## P ^ LC
			TV07RGQZN ■■■ ## P ^ LC
	JD38999/24F X XX A °	EN3645 F7 X N XX A °	TVS07RF ■■■ ## P ^ LC
			TVS07FCI ■■■ ## P ^ LC
		EN3645 F7 X L XX A °	TV07RQF ■■■ ## P ^ LC
		EN3645 F7 X Q XX A °	TV07RGQF ■■■ ## P ^ LC
JD38999/26W X XX A °	EN3645 W6 X N XX A °	TV06RW ■■■ ## P ^ LC	
	EN3645 W6 X L XX A °	TV06RQW ■■■ ## P ^ LC	
JD38999/26Z X XX A °		TV06ZN ■■■ ## P ^ LC	
		TV06RQZN ■■■ ## P ^ LC	
JD38999/26F X XX A °	EN3645 F6 X N XX A °	TVS06RF ■■■ ## P ^ LC	
	EN3645 F6 X L XX A °	TV06RQF ■■■ ## P ^ LC	
Stainless Steel shell	JD38999/20K X XX A °	EN3645 K0 X N XX A °	TVPS00RK ■■■ ## P ^ LC
			TVPS00KCI ■■■ ## P ^ LC
	JD38999/20S X XX A °		TVPS00RS ■■■ ## P ^ LC
	JD38999/24K X XX A °	EN3645 K7 X N XX A °	TVPS00SCI ■■■ ## P ^ LC
			TVS07RK ■■■ ## P ^ LC
	JD38999/24S X XX A °		TVS07KCI ■■■ ## P ^ LC
			TVS07RS ■■■ ## P ^ LC
JD38999/26K X XX A °	EN3645 K6 X N XX A °	TVS07SCI ■■■ ## P ^ LC	
JD38999/26S X XX A °		TVS06RK ■■■ ## P ^ LC	
		TVS06RS ■■■ ## P ^ LC	
Hermetic receptacles	JD38999/21Y X XX P °	EN3645 Y0 X N XX M °	TVPS02Y ■■■ ## P ^
	JD38999/21N X XX P °		TVPS02YN ■■■ ## P ^
	JD38999/23Y X XX P °	EN3645 Y7 X N XX M °	TVS07Y ■■■ ## P ^
	JD38999/23N X XX P °		TVS07YN ■■■ ## P ^
	JD38999/25Y X XX P °	EN3645 Y1 X N XX M °	TVSIY ■■■ ## P ^
	JD38999/25N X XX P °		TVSIYN ■■■ ## P ^
Dust caps	JD38999/32W X R	EN3645 W4 X 0	BF R TV W ■■■
	JD38999/32W X N	EN3645 W4 X 7	BF RO TV W ■■■
	JD38999/33W X R	EN3645 W3 X 0	BEC R TV W ■■■
	JD38999/33W X N	EN3645 W3 X 7	BER R TV W ■■■
Dummy receptacle		EN3645 W5 X	SE00 TV W ■■■

As example, male version without contact (except for bronze and hermetic male versions with contacts).

Caption	MIL-DTL-38999 Series III P/N	EN3645	AMPHENOL P/N
Shell size	X	X	■■■
Insert arrangement	XX	XX	##
Polarization, rotation of secondary keyways	°	°	^