Amphenol SOCAPEX

PowerSafe

Derived from MIL-DTL-38999 Series III & EN3645 VG96944 Qualified



Proven excellence in interconnect solutions

Since **1947**, Amphenol Socapex has prescribed, designed and manufactured reliable and innovative interconnection solutions for **harsh environments**, specializing in standard and customized electrical and fiber optic connectors, contacts, accessories and cabling solutions.

Located in the **Mont Blanc** region of France and Pune in India, Amphenol Socapex has a presence in over 100 countries around the world.

Amphenol Socapex is part of the international Amphenol Corporation.



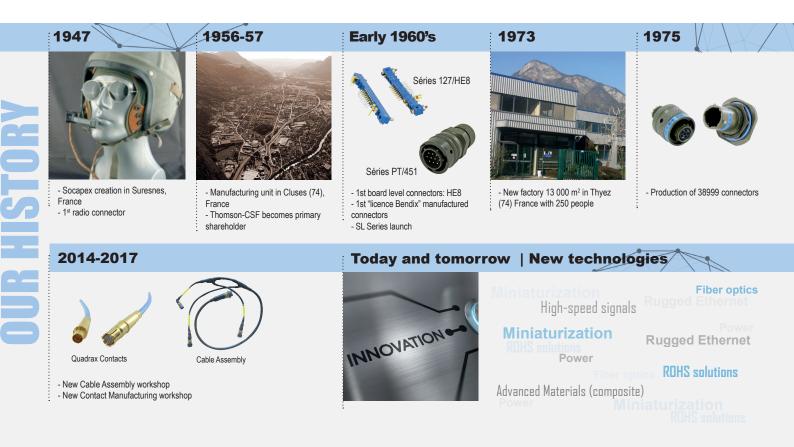
1000+ employees



Net Sales 2021: **92 M€** 72% Export - 28% France



Two facilities : **Thyez** (France), **Pune** (India)



Amphenol Socapex | POWERSAFE

INTERNATIONAL EXPERTISE



Our expertise has no boundaries

Integrated Production in France & India

- 24 000 m² manufacturing capacity on 2 sites
- Design centers in France and India
- State-of-the-art manufacturing technology



Our markets



Communication Systems - Radios - C4ISR / Ground vehicles - Vetronics / Marine / Missiles



Commercial & military / Avionics / Engines / Landing gear / Actuators

1986	1995-96	2004	2005	2010's
Amphenol Socapex		6		LuxBeam™ HDAS
- Amphenol becomes primary shareholder	- Expanded Beam connector CTOS launch - Headquarters transferred to Thyez	- RJ Field launch, "Award Electronica"	- Opening of manufacturing site in Pune, India	- LuxBeam [™] and HDAS launch

Today and tomorrow | Sustainable development



Respect for nature and the environment Optimization of natural resources Recycling Goodwill Goodwill Optimization of natural resources Waste Management Waste Management

PRODUCING FASTER, SMALLER, STRONGER CONNECTORS...



Technologies & innovation



Engineering Laboratory for product testing and qualification, product expertise and metrology

- Mechanical and electrical skills

- RF and fiber optics expertise



Strong expertise in high-speed signals - 3D EM simulation software & EM models - Time Domain and frequency domain (VNA 20GHz, TDR and eye diagram)



Focus on materials expertise and manufacturing techniques to produce faster, smaller and stronger products

- 3D CAD mechanical software, simulation & analysis

- Disruptive metal alloys, additive manufacturing



Sustainable environment approach, with pro-active management of regulations (REACH / RoHS / Conflict minerals...)

- New materials development, plating, and suitable processes

- Recycling and rational resources consumption

Our workshops

Our workshops located in France & India provide consistent quality adapted to your volume requirements.

Tooling : Tools for our different activities : molding, machining, assembly Molding: Solid expertise in thermoplastic elastomer and thermoset molding Machining: Manufacturing of cylindrical shells from 10 to 90 mm in diameter and rectangular shells Screw Machining : Cylindrical production parts up to 10 mm in diameter Plating : Plating with cadmium, nickel, electroless nickel, silver, black zinc nickel, gold Assembly : Connector and harness assembly (electrical & optical)

Our certifications











Certified Management Sys

Product certifications : MIL-DTL38999, EN3645, EN3155, VG

Our memberships



Member of CMG (Connecting Manufacturing Group) Consortium

Due to technical modifications, all information provided is subject to change without prior notice Designed by Amphenol Socapex

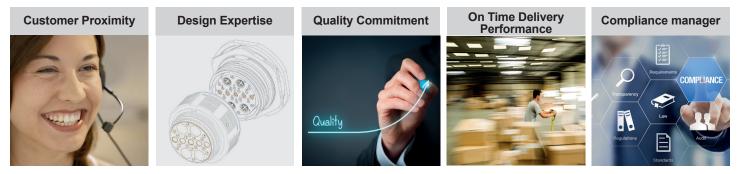
Amphenol SOCAPEX

DELIVERING GREAT CUSTOMER EXPERIENCE



▶ We have a strong reputation for helping customers solve their toughest challenges. This approach of serving your needs is ingrained in our company – from our sales team to our product development engineers.

A partner you can trust



Buy our solutions

You can access our solutions through our global network of sales offices or through our distributors.

Field Sales Team :

- 12 in France
- 15 in Europe
- 100+ in North America and rest of the world.
- 5 Business Development Managers supporting local sales force Europe, North America and the rest of the world
- Technical Support & Multilingual Customer Service : 15 people

Worldwide Distribution Network :

Including qualified distributors (QPL approved) for assembling : MIL-DTL-38999, PT/451/VG95328 & Fiber Optics connectors



POWERSAFE / VG96944 - GENERAL CHARACTERISTICS

Power connector qualified VG96944 and designed for user safety

Description

PowerSafe connectors are derived from MIL-DTL-38999 Series III connectors and dedicated to high power supply in harsh environments. These connectors provide the user with, the highest user safety, shielding effectiveness & environmental performances. PowerSafe connectors follow the European standard for power equipment DIN EN 61984 (former VDE 0627).



Markets

C5ISR - Battlefield Communication Ground Vehicles Military Avionics Missile Avionics Navy Harsh Industrial Environment

Applications

Power connectors deployed on the field (drums) Electrical power generator







C5ISR



Military Aerospace



Ground Vehicle





Navy

Industrial

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Amphenol SOCAPEX

POWERSAFE / VG96944 - GENERAL CHARACTERISTICS

Power connector qualified VG96944 and designed for user safety

Main features

TWO INSERTS TYPES WITH DIFFERENT **CHARACTERISTICS**

• "E4/E6" inserts - up to 200°C & CTI (Comperative Tracking Index) <100

Available in Amphenol Proprietary designations only

"V4/V6" inserts – VG96944 compliant – up to 150°C

& CTI between 175 & 400 (Material Group IIIa)

Available in VG designations & Amphenol Proprietary ones

FIRST MATE/LAST BREAK: one earth contact directly linked to the shell, stays in place even in case of overheats. LAST MATE/FIRST BREAK: one pilot contact with a breaking capacity (brings the information to a relay to turn on/off the power).

These features protects the user even if the connectors are mated or unmated. Amphenol recommends to connect / disconnect connector when unloaded.

IP28 WHEN UNMATED, IP68 WHEN MATED

HIGH ROBUSTNESS AND EXCELLENT **ENVIRONMENTAL PERFORMANCES.**

SEVERAL MATERIALS & PLATING

- Aluminum (Olive drab Cadmium, Nickel, Black Zinc Nickel, Tin Zinc platings)

- Marine Bronze

- Stainless steel (Passivated, Nickel plated upon request)

EMI/RFI PROTECTION : Shell to shell bottoming and grounding fingers on the plug shell

ACCESSORIES:

- Caps: compatible with MIL-DTL-38999 Series III caps. - Backshells: compatible with AS85049 backshells for MIL-DTL-38999 Series III connectors, VG95319-1011G, as well as TV35 & TVNSA backshells.

Same panel drilling as standard MIL-DTL-38999 Series III connectors.

Added benefits

- PowerSafe is compliant with IP2X Electrical Safety standard, which guarantees touch-proof protection of live parts. - Qualified according the most stringent standard VG96944 (applicable to Aluminum with Olive Drab Cadmium or Tin Zinc
- finish and Marine Bronze versions only).

- Safety use design following DIN EN-61984 (former VDE 0627).

(10) Pilot socket contact

(13) Pilot pin contact

(15) Interfacial seal

(16) Socket insert

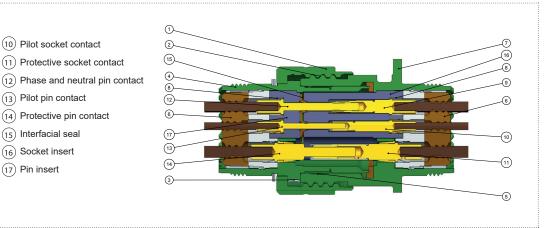
(17) Pin insert

(14) Protective pin contact

(11) Protective socket contact

Concept

- 1 Coupling nut
- (2) Quick coupling thread
- (3) Anti-decoupling device
- (4) Plug shell
- 5 Grounding spring
- (6) Grommet
- 7 Receptacle shell
- (8) Contact retention clips
- (9) Phase and neutral socket contact



POWERSAFE / VG96944 - LAYOUTS & ELECTRICAL CHARACTERISTICS

Amphenol **Power**Safe range offers 6 contact arrangements to fit all your power needs, with single-phase & three-phase layouts, and a choice of 2 insert materials for each layout depending on the need :

 \rightarrow V4 / V6 inserts : developped according to VG96944 standard with a material less impacted by the disconnection under load. Able to withstand a maximum temperature of 150°C & have a CTI between 175 & 400 (Material Group IIIa)

 \rightarrow E4 / E6 inserts : using the same material than our 38999 series connectors and able to whistand a temperature up to 200°C

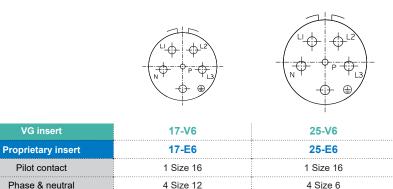
Single-Phase Layouts

j				
VG insert	13-V4	15-V4	21-V4	23-V4
Proprietary insert	13-E4	15-E4	21-E4	23-E4
Pilot contact (P)	1 Size 20	1 Size 16	1 Size 16	1 Size 16
Phase & neutral (N & L)	2 Size 16	2 Size 12	2 Size 6	2 Size 4
Protective contact	1 Size 16	1 Size 12	1 Size 6	1 Size 4

	Pilot c	ontact - P	Phase, Neutral and		
Contact Arrangements	Contact rating	Operating Voltage AC or DC	Contact rating	Operating Voltage AC or DC	Test voltage AC *
13-V4 / 13-E4	0,5 A	60 V	16 A	250 V	1500 V
15-V4 / 15-E4	0,5 A	60 V	25 A	500 V	2500 V
21-V4 / 21-E4	0,5 A	60 V	63 A	500 V	2500 V
23-V4 / 23-E4	0,5 A	60 V	100 A	500 V	2500 V

Three-Phase Layouts

Protective contact



1 Size 12

Contact Arrangemente	Pilot contact - P		Phase, Neutral and Protectiv		
Contact Arrangements	Contact rating	Operating Voltage AC or DC	Contact rating	Operating Voltage AC or DC	Test voltage AC *
 17-V6 / 17-E6	0,5 A	60 V	25 A	500 V	2500 V
 25-V6 / 25-E6	0,5 A	60 V	63 A	500 V	2500 V

1 Size 6

*Note : Test voltage in mated condition for Phase, Protective and Neutral pin & socket contacts, and Pilot pin contacts. Test voltage in unmated condition for Pilot socket contact only

1-

POWERSAFE / VG96944 - CHARACTERISTICS

Environmental characteristics

	Connectors with Proprietary inserts E4 / E6	Connectors with VG96944 compliants inserts V4 / V6
Temperature	-65 to +175°C (Olive drab cadmium, Black zinc nickel plating) -65 to + 200°C (Nickel plating, Marine Bronze, Stainless steel)	-65 to +150°C (all materials and platings)
Salt spray exposure	48h for Nickel plated Aluminum 500h for Olive drab cadmium, Black zinc nickel, Marine Bronze and Stainless steel	Test level 2 : 5% NaCl. 2h salt spray exposure and 22h storage in humid air repeated during 5 cycles
Sealing	IP28: - Finger test for socket contacts and socket inserts - Pressure water tight (48h, under 2m water)	IP28: - Finger test for socket contacts and socket inserts - Pressure water tight (48h, under 2m water)

Mechanical characteristics

	Connectors with Proprietary inserts E4 / E6	Connectors with VG96944 compliants inserts V4 / V6
Durability	500 mating cycles	500 mating cycles
Shocks	-	Half-sine, 500 m/s², 11 ms
Sine vibrations	60g from -55 +175°C (Olive drab cadmium) / + 200°C (Nickel)	-
Random vibra- tions	Per EIA-364-28	Per VG95319-2 (Spectrum 5 Hz to 500 Hz)
Insert material	Thermoplastic insert Silicone rubber grommet and interfacial seal	Thermoplastic insert Silicone rubber grommet and interfacial seal
Insulator material Comparative Tracking Index	<100V	<400V
Contacts	Crimp, removable contacts Gold plating for pilot contact and silver plating for protective, phase and neutral contacts	Crimp, removable contacts Gold plating for pilot contact and silver plating for protective, phase and neutral contacts
Protective contact Resistance	≤100 mΩ	≤100 mΩ

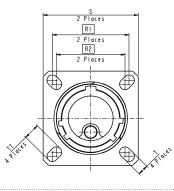
Contact retention force

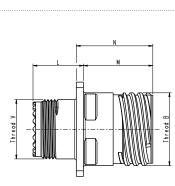
Contact Size	20	16	12	6	4
Maximum load (N)	67	111	111	111	150

POWERSAFE / VG96944 - OVERALL DIMENSIONS - RECEPTACLES

Square flange receptacle

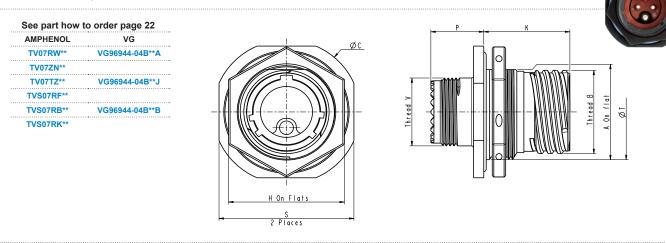
AMPHENOL	VG
TVP00RW***	VG96944-04A**A
TVP00ZN***	
TVP00TZ***	VG96944-04A**J
TVPS00RF***	
TVPS00RB***	VG96944-04A**B
TVPS00RK***	





Shell size	в thread Class 2A (inches)	L Max (mm)	M Max (mm)	N +0.13 0 (mm)	R1 (mm)	R2 (mm)	S ±0.3 (mm)	T ±0.2 (mm)	TT ±0.2 (mm)	V thread (metric)
13	.875	15.5	20.9	22.99	23.01	20.62	28.6	3.25	4.93	M18x1-6g
15	1.0000	15.5	23.3	25.49	24.61	23.01	31.0	3.25	4.39	M22x1-6g
17	1.1875	15.6	23.4	25.49	26.97	24.61	33.3	3.25	4.93	M25x1-6g
21	1.3750	17.5	24.6	27.49	31.75	29.36	39.7	3.25	4.93	M31x1-6g
23	1.5000	20.7	24.6	27.49	34.93	31.75	42.9	3.91	4.93	M34x1-6g
25	1.625	20.7	24.6	27.49	38.10	34.93	46.0	3.91	6.15	M37x1-6g

Jam nut receptacle



Shell size	B thread Class 2A (inches)	A +0.1 -0.15 (mm)	C Max (mm)	K Max (mm)	P Max (mm)	H Hex 0 -0.1 (mm)	S +/-0.4 (mm)	T (mm)	V thread (metric)	Hex nut max torque (N.m)
13	.875	23.82	38.4	22.5	13.7	30	34.9	25.20 - 25.50	M18x1-6g	20
15	1.0000	26.97	41.6	25.0	14.1	34	38.1	28.30 - 28.60	M22x1-6g	20
17	1.1875	30.15	44.8	25.0	14.1	36	41.3	31.80 - 31.95	M25x1-6g	
21	1.3750	36.50	25.7	27.0	18.5	46	49.2	37.97 - 37.80	M31x1-6g	30
23	1.5000	39.67	55.9	27.0	18.5	46	52.4	41.00 - 41.30	M34x1-6g	40
25	1.625	42.85	59.0	27.0	18.5	50	55.6	44.20 - 44.5	M37x1-6g	

POWERSAFE / VG96944 - OVERALL DIMENSIONS - PLUG

Straight plug

	MPHENOL
	TV06RW**
	TV06ZN**
	TV06TZ**
	TVS06RF**
	TVS06RB**
06RK**	TVS06RK**

Conforms to CECC 75.201.002 (coupling nut for arctic gloves)

Shell size	B thread Class 2B (inches)	Q Max (mm)	F Max (mm)	D (mm)	V thread (metric)
13	.875	29.4	35.5	15.01	M18x1-6g
15	1.0000	32.5	38.0	17.51	M22x1-6g
17	1.1875	35.7	38.0	17.51	M25x1-6g
21	1.3750	38.5	44.4	19.51	M31x1-6g
23	1.5000	44.9	46.0	19.51	M34x1-6g
25	1.625	48.0	46.0	19.51	M37x1-6g

POWERSAFE / VG96944 - JAM NUT REDUCED FLANGE RECEPTACLE

Reduced flange receptacle are derived from 38999 series III Jam nut receptacles and dedicated for applications where size & weight are criticals, offering un smaller footprint and higher contact density

Main features

- For Jam nut receptacle (TV07/TVS07).
- Higher density on panel: 41% average footprint surface reduction.
- Lighter: 20% average lighter than standard 38999
- Mates with standard **Power**Safe plug and caps.
- Matches the **Power**Safe performances.
- Improved design of the o'ring groove allowing the o'ring to stay in place.



RECEPTACLE FRONT FACE

Standard TV*07***







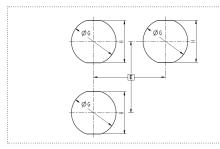
Footprint savings

Average 41% footprint reduction:

Standard	Reduced flange F312 ØB	Size	Standard PowerSafe ØA _{MAX} (mm)	PowerSafe Reduced flange (F312) ØB _{MAX} (mm)	Ø Reduction
		13	38.4	28.1	46%
		15	41.6	32.1	40%
		17	44.8	36.1	35%
		21	52.7	41.1	39%
		23	55.9	44.1	38%
~.¥	I	25	59	48.1	34%

All others dimensions remains the same in standard or reduced flange (lengths, threads, etc.). See page 10 for all other Jam nut receptacle dimensions

Panel hole dimensions



Size	E recommended	ØG +0.1 0	H +0.1 0
13	31.4	23	22.3
15	34.5	27	25.5
17	37.7	31	30.3
21	43.7	36	35.1
23	46.9	39	38.3
25	51.0	43	41.5

Tooling

Specific tool for castle nut	Size	Tool reference
6,5 for end fitting %" square hole	13	809683
	15	809684
	17	809685
	21	809687
13	23	809688
on flats	25	809689

All dimensions are given for information only and are in mm, except as otherwise specified ***in mm: 1mm=0.03937 inch**

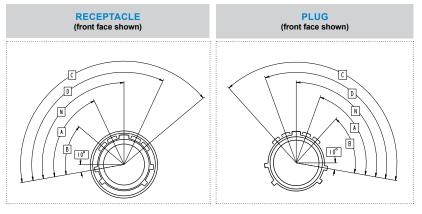
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POWERSAFE / VG96944 - KEYWAY & PANEL HOLE DIMENSIONS

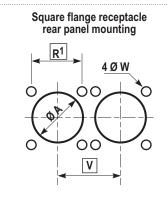
Keyway polarization

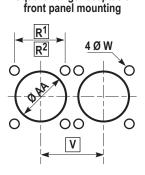
A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The angles for a given connector are the same whether it contains pins or sockets. Minor keys stay fixed, master key rotates. Keyway identification letter is (Blank) for Normal, A, B, C or D.

Size	Position of the major key										
Size	NORMAL BLANK	Α	В	С	D						
13	100	80	68	132	120						
15	100	79	66	134	121						
17	100	82	70	130	118						
21	100	82	70	130	118						
23	100	85	74	126	115						
25	100	85	74	126	115						



Panel hole dimensions

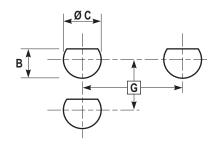




Square flange receptacle

* Maximum panel thickness for back panel mounting: 5.8mm for size 13 to 17, 5mm for size 21 to 25.

Jam nut receptacle rear panel mounting



Shell size	R¹ (mm)	R² (mm)	V Mini (mm)	ØA Min (mm)	ØAA Min (mm)	ØW ±0.13 (mm)	G Mini (mm)	ØC +0.25 0 (mm)	B 0 -0.25 (mm)
13	23.01	20.62	30.20	23.42	19.05	3.25	36.00	25.65	24.26
15	24.61	23.01	33.30	26.59	23.01	3.25	39.60	28.83	27.56
17	26.97	24.61	36.50	30.96	25.81	3.25	43.30	32.01	30.73
21	31.75	29.36	42.50	36.12	32.16	3.25	50.60	38.35	37.08
23	34.93	31.75	45.70	39.29	34.93	3.81	54.20	41.53	40.26
25	38.10	34.93	48.80	42.47	37.69	3.81	59.70	44.70	43.43

POWERSAFE / VG96944 - BACKSHELLS

TV NSA Backhells

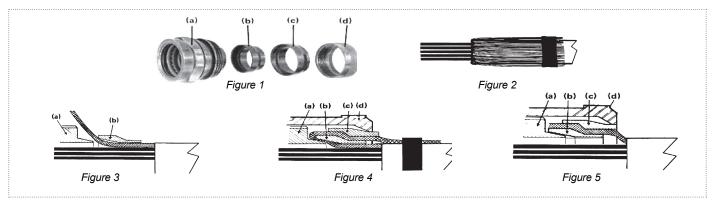
These backshells ensure the shielding by clamping the braid with a screwing system. The free inner ring avoids twisting of the braid during screwing (double conus style).



See part how to order page 23 Shell A Thread øс ØD ØΕ ØG в Metric size max max max max max Cable diamete M18 x 1.0-6H 12.7 28.1 21.2 22.6 13 26 15 M22 x 1.0-6H 29 14.8 31.1 25.1 25.8 The ğ M25 x 1.0-6H 17 32 17.9 34.1 28.1 29.0 21 M31 x 1.0-6H 39 23.1 41.1 34.1 35.2 23 M34 x 1.0-6H 44.1 36.9 42 26.2 38.4 35,6 Max M37 x 1.0-6H 25 45 28.8 49.1 39.9 41.5

Use Straight Shrink Boots 202K121-12 (size 13), 202K132-12 (size 15 and 17), 202K153-12 (size 21, 23 and 25) and S1255 Adhesive

TV NSA Installation instructions



1. Prepare the cable for termination process and slide the items onto the cable in the order shown on figure 1.

2. Screw the backshell at the rear of the connector. The best performance in time of the system « connector + rear accessory » consists in applying the torque value to screw then unscrew, to apply the torque value & screw a second time, then to unscrew and finally screw the torque value a third time.

3. Fold back the braid on the outer jacket and fix it (figure 2)

4. Install the braid as shown on figures 3 and 4: Release the braid and cover the backshell (a) and the connector's shell. Slide the first ring (b) over the braid. Fold back the braid on the ring (b) and slide the second ring (c) over the braid and the first ring (b). Screw the last ring (d) at the rear of the backshell. If necessary, fix the extra braid on the outer jacket of the cable. If this installation (double folding of the braid) is not possible, refer to figure 5: Slide the first ring (b). Release the braid and cover the backshell (a) and the connector's shell. Cut the braid as shown. Slide the second ring (c) over the braid and the first ring (b). Screw the last ring at the rear of the backshell.

5. Then, Install the heat-shrink moulded piece.



VG95319 Backshells

These backshells are suitable for **Power**Safe connectors and ensure the shielding by clamping the braid with a screwing system (single conus style).

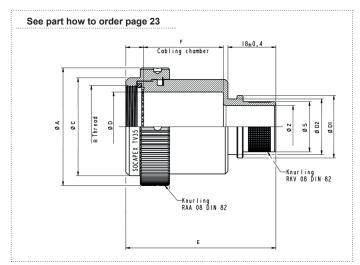
Shell size	Backshell VG Standard	Shrink boot	Adhesive	Micro Clamping Band	or	Standard Clamping Band		Tool for Standard Band
13	VG95319-1011G012A	VG95343T06B001A						
15	VG95319-1011G004A		VG95343T15A001	895693			809985	809952
17	VG95319-1011G005A	V G95343100B003A				072952		
21	VG95319-1011G008A	VG95343T06B004A						
23	VG95319-1011G009A	VG95343T06B005A		895700				
25	VG95319-1011G010A	VG95343T06C010A						

Use Straight Shrink Boots 202K121-12 (size 13), 202K132-12 (size 15 and 17), 202K153-12 (size 21, 23 and 25) and S1255 Adhesive

POWERSAFE / VG96944 - BACKSHELLS

TV35 Backshells

TV35 and TVB35 band backshells provide a full 360° shield termination with a quick, easy and cost effective cabling process. They are available with different cabling chamber lengths and exit diameters. The use of replaceable bands facilitates future maintenance or reparability. Sealing is ensured by straight or right angled heat shrink moulded piece at the rear of backshell.



Shell size	B Thread Metric	Ø A max	ØC	ØD
13	M18 x 1.0-6H	31.80	25.00	13.80
15	M22 x 1.0-6H	35.00	28.00	16.30
17	M25 x 1.0-6H	38.10	30.80	20.10
21	M31 x 1.0-6H	44.30	36.90	26.00
23	M34 x 1.0-6H	47.20	39.80	29.28
25	M37 x 1.0-6H	50.00	43.00	32.45

Shell	E max mm	Cabling chamber	Z rear side diameter coding											
size		length F ^{+/-0.1} mm	08	10	12	14	16	20	24	28	32	36		
	36	10	=	=		-	-	-	-		-			
13	46	20												
	56	30			=									
	36	10												
15	46	20				-								
	56	30				-		-						
••••	36	10									• • • • • • • • • • • • • • • •	••••••		
	46	20												
17	51	25												
	56	30							-			-		
• • • • • •	36	10		•••••••	••••••	•••••••						••••••		
21	46	20												
	56	30										-		
	36	10			•••••	•	•				_			
23	46	20							-					
	56	30												
••••	36	10				•	•							
25	46	20				-				•				
	56	30										-		
	Z Codi	ng	08	10	12	14	16	20	24	28	32	36		
	ØZ		6.30	7.90	9.40	11	12.60	15.80	19	22.10	25.30	28.80		
	ØS MI MAX		9.40 9.50	11.10 11.2	14.10 14.30 0	14.10 14.30	15.70 15.90	18.90 19.10	22 22.20	25.20 25.40	28.40 28.60	31.50 31.80		
	ØD1 ±	0,1	14.00	17.10	17.10	18.70	20.30	23.50	26.70	29.80	33	36.20		
	ØD2 ±(0,1	11.40	14.50	14.50	16.10	17.70	20.90	23.10	26.20	29.40	32.60		

Use Straight Shrink Boots 202K121-12 (size 13), 202K132-12 (size 15 and 17), 202K153-12 (size 21, 23 and 25) and S1255 Adhesive.

POWERSAFE / VG96944 - PROTECTIVE CAPS

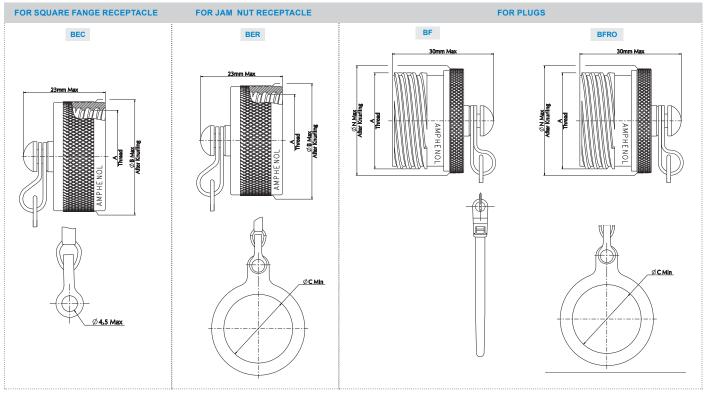
Main features

- Available for Plugs, Jam nut and Square receptacles
- IP 68 (permanent sealing)
- Protection against dust, water and moisture
- EMI function
- Nylon cord, stainless steel rope or metallic chain



Overall dimensions

See part how to order page 24



Shell size	A thread .1P3L-TS Class 2A (External) Class 2B (Internal) (inches)	ØB Max (After Knurling)	ØC Min	ØN Max
13	.875	25.75	25.15	24.30
15	1.0000	28.90	29.92	27.40
17	1.1875	33.80	32.00	30.60
21	1.3750	38.60	38.25	36.40
23	1.5000	41.70	42.62	39.70
25	1.625	44.90	44.45	42.80

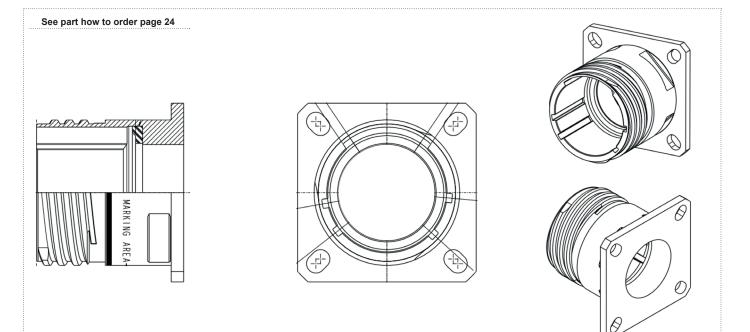
Nylon cord, Chain and Stainless Steel Rope length

Cap type	Attachement length
BEC/BER for receptacle	127 (+13 / -7)
BF/BFRO for plug	160±5

POWERSAFE / VG96944 - DUMMY RECEPTACLES

- Dedicated to PowerSafe
- Universal coding : Compatible with all Keyway polarizations
- Can be used as a backshell tightening tool
- Same dimensions and Panel holes than a standard Square
- Flange Receptacle (see page 10).





POWERSAFE / VG96944 - CONTACTS & TOOLING

			Contacts Proprietary					over	Cr	imping tools		lr	sertion tool	s	R	emoval tool	s				
	Contact type	Size	Part N		AWG	Section mm ²	insu	lator			Selector	Plastic	Me	tallic	Plastic	Me	tallic				
			Pin	Socket			Min	Мах	Tools F	Positioner	position	(Color)	Straight type	Angle type	(Color)	Straight type	Angle type				
	Pilot	20	600665	600892	20 22 24	0,61 0,38 0,24	1,02	2,11			3 2 1	M81969/14-10 (red / orange)	809817	M81969/8-05	M81969/14-10 (red / orange)	809847	M81969/8-06				
13-V4 13-E4	Phase Neutral	16	600666	600676	16	1,94 1,23	1 65	2,77	M22520/1-01	M22520/1-04	6 6	M81969/14-03 (blue / white)	809816	M81969/8-07	M81969/14-03 (blue / white)	809846	M81969/8-08				
13-64	Protective		600667	600677	18 20	0,96 0,61	1,00	_,			5 4	1	000010		/	000010					
	Pilot	16	600660	600894	16 18 20	1,23 0,96 0,61	1,65	2,77	M22520/1-01 M22520/1-04		6 5 4	M81969/14-03 (blue / white)	809816	M81969/8-07	M81969/14-03 (blue / white)	809846	M81969/8-08				
15-V4 15-E4	Phase Neutral	12	600661	600671	12	2,98	2.46	3,61		8	M81969/14-04 (yellow / white)	. /	M81969/8-09	M81969/14-04 (yellow / white)	,	M81969/8-10					
	Protective		600662	600672	14	1,94	_,	-,			7	1			1	·					
	Pilot	16	600660	600894	16 18 20	1,23 0,96 0,61	1,65	2,77			6 5 4	M81969/14-03 (blue / white)	809816	M81969/8-07	M81969/14-03 (blue / white)	809846	M81969/8-08				
17-V6 17-E6	Neutral	12		600671	12 14	2,98 1,94	2,46	3,61	M22520/1-01	M22520/1-04	8 7	M81969/14-04 (yellow / white)	/	M81969/8-09	M81969/14-04 (yellow / white)	/	M81969/8-10				
	Protective Pilot	16		600672 600894	16 18	1,23 0,96	1,65	2,77	M22520/1-01	M22520/1-04	6 5	/ M81969/14-03 (blue / white)	1	I	/ M81969/14-03 (blue / white)	1	1				
21-V4	Phase Neutral		600663	600673	20	0,61			809947 + 809908 (hex crimp) or						4						
21-E4	Protective	6	600664	600674	6	13,61	7,3	8,1	M22520/23-01 + M22520/23-03	809697 (pin) 809690 (socket)		/ /	/	/	/	1	809696				
	Pilot	16	600660	600894	16 18 20	1,23 0,96 0,61	1,65	2,77		M22520/1-04	6 5 4	M81969/14-03 (blue / white)	1	1	M81969/14-03 blue / white)	1	1				
23-V4 23-E4	Phase Neutral	4		612516		21.2			M22520/23-01	M22520/23-04	1	,		/	,	809943	,				
	Protective	т	612513	612515		21.2					,	,	,	,	,	000040	,				
	Pilot	16	600660	600894	16 18 20	1,23 0,96 0,61	1,65	2,77	M22520/1-01	M22520/1-04	6 5 4	M81969/14-03 (blue / white)	1	1	M81969/14-03 (blue / white)	1	1				
25-V6	Phase Neutral	6	600663	600673		10.04	7.0	04	809947 + 809908 (hex cr or		1	,	. 1	,	,	,	809696				
25-E6	Protective	Ö	600664	600674	6	13,61	7,3	0,1	M22520/23-01 + M22520/23-03	809697 (pin) 809690 (socket)	/	/		/	/	/	009090				

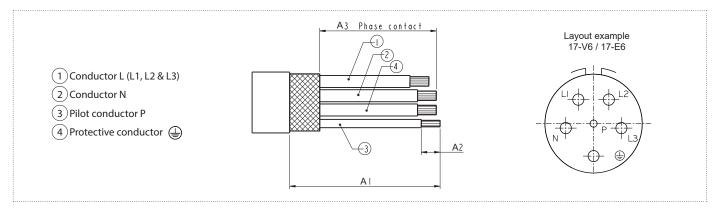
CRIMPING TOOLS



All dimensions are given for information only and are in mm, except as otherwise specified *in mm: 1mm=0.03937 inch

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POWERSAFE / VG96944 - WIRE STRIP LENGTH



Size	Contact type	A1	A2	A3 (for shielding braid)			
	Protective contact						
13	Phase contacts (N, L1, L2 & L3)	53 - 63	6 - 6.5				
	Pilot contact (P)						
	Protective contact						
15	Phase contacts (N, L1, L2 & L3)	53 - 63	6 - 6.5				
	Pilot contact (P)						
	Protective contact						
17	Phase contacts (N, L1, L2 & L3)	53 - 63	6 - 6.5	42 _{MAX}			
	Pilot contact (P)						
	Protective contact	55 - 65	14 - 15.5				
21	Phase contacts (N, L1, L2 & L3)		14 - 15.5				
	Pilot contact (P)	60 - 70	6 - 6.5				
	Protective contact	FF 0F	14 - 15.5				
23	Phase contacts (N, L1, L2 & L3)	55 - 65	14 - 15.5				
	Pilot contact (P)	60 - 70	6 - 6.5				
	Protective contact	EE QE	14 1E E				
25	Phase contacts (N, L1, L2 & L3)	55 - 65	14 - 15.5				
	Pilot contact (P)	60 - 70	6 - 6.5				

POWERSAFE / VG96944 - VG96944 QUALIFIED CABLES

Size 13	PN	Raw material
WIRE AWG16 white	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG14 white	M81044/12-14-9	Tinned copper, jacket PVDF
WIRE AWG14 blue	M81044/12-14-6	Tinned copper, jacket PVDF
WIRE AWG14 green yellow	M81044/12-14-45	Tinned copper, jacket PVDF
Fillers	-	PTFE
Braid	TB13-T-63	Tinned copper
Heatshrink	DR25 3/8-0M (VG95343 Part 5 Type D)	Elastomer
Size 15	PN	Raw material
WIRE AWG16 white	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG12 white	VG95218T020A017	Tinned copper, jacket PVF modified
WIRE AWG12 blue	M81044/12-12-6	Tinned copper, jacket PVDF
WIRE AWG12 green yellow	M81044/12-12-45	Tinned copper, jacket PVDF
Fillers		PTFE
Braid	TB13-T-695	Tinned copper
Heatshrink	DR25 1/2-0M (VG95343 Part 5 Type D)	Elastomer
Size 17	PN	Raw material
WIRE AWG16 white		
	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG12 white	VG95218T020A017	Tinned copper, jacket PVF modified
WIRE AWG12 blue	M81044/12-12-6	Tinned copper, jacket PVDF
WIRE AWG12 green yellow	M81044/12-12-45	Tinned copper, jacket PVDF
Fillers	-	PTFE
Braid	TB13-T-695	Tinned copper
Heatshrink	DR25 1/2-0M (VG95343 Part 5 Type D)	Elastomer
Size 21	PN	Raw material
WIRE AWG16 white	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG6 white	M22759/16 6-9	Tinned copper, jacket PVDF
WIRE AWG6 blue	M22759/16 6-6	Tinned copper, jacket PVDF
WIRE AWG6 green yellow	M22759/16 6-4/5	Tinned copper, jacket PVDF
Fillers	-	PTFE
Braid	TB13-T-200	TINNED copper
Heatshrink	DR25 1-0M (VG95343 Part 5 Type D)	Elastomer
Size 23	PN	Raw material
WIRE AWG16 white	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG4 white	M22759/34 4	Tinned copper, jacket ETFE
WIRE AWG4 blue	M22759/34 4	Tinned copper, jacket ETFE
WIRE AWG4 green yellow	M22759/34 4	Tinned copper, jacket PVDF
Fillers		PTFE
Braid	TB13-T-200	
	DR25 1-0M (VG95343 Part 5 Type D)	Tinned copper Elastomer
Heatshrink Size 25	PN	Raw material
WIRE AWG16 white	VG95218T020A003	Tinned copper, jacket PVF modified
WIRE AWG6 white	M22759/16 6-9	Tinned copper, jacket PVDF
WIRE AWG6 blue	M22759/16 6-6	Tinned copper, jacket PVDF
WIRE AWG6 green yellow	M22759/16 6-4/5	Tinned copper, jacket PVDF
Fillers	-	PTFE
Braid	TB13-T-200	Tinned copper
Diala		

Due to technical modifications, all information provided is subject to change without prior notice Designed by Amphenol Socapex

Amphenol SOCAPEX

POWERSAFE / VG96944 - MIL QUALIFIED CABLES

Size 13	PN	Raw material
WIRE AWG20	M22759/34 20	Tinned copper, jacket ETFE
WIRE AWG14	M22759/34 14	Tinned copper, jacket ETFE
Fillers	1	PTFE
Braid	4D045558	Nickel copper
Heatshrink	RW200E-1/2-0 or HLR33001270	Fluroelastomeric or Viton
Size 15	PN	Raw material
WIRE AWG16	M22759/34 16	Tinned copper, jacket ETFE
WIRE AWG12	M22759/34 12	Tinned copper, jacket ETFE
Fillers	/	PTFE
Braid	4D047547	Nickel copper
Heatshrink	RW200E-3/4-0 or HLR33001900	Fluroelastomeric or Viton
Size 17	PN	Raw material
WIRE AWG16	M22759/34 16	Tinned copper, jacket ETFE
WIRE AWG12	M22759/34 12	Tinned copper, jacket ETFE
Fillers	1	PTFE
Braid	4D047547	Nickel copper
Heatshrink	RW200E-3/4-0 or HLR33001900	Fluroelastomeric or Viton
Size 21	PN	Raw material
WIRE AWG16	M22759/34 16	Tinned copper, jacket ETFE
WIRE AWG6	M22759/34 6	Tinned copper, jacket ETFE
Fillers	1	PTFE
Braid	4D045591	Niekel eenen
	10010001	NICKEI COPPER
Heatshrink	RW200E-1 1/2-0 or HLR33003810	Nickel copper Fluroelastomeric or Viton
Heatshrink	RW200E-1 1/2-0 or HLR33003810	Fluroelastomeric or Viton Raw material
Heatshrink Size 23 WIRE AWG16	RW200E-1 1/2-0 or HLR33003810 PN M22759/34 16	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE
Heatshrink Size 23	RW200E-1 1/2-0 or HLR33003810	Fluroelastomeric or Viton Raw material
Heatshrink Size 23 WIRE AWG16 WIRE AWG4 Fillers	RW200E-1 1/2-0 or HLR33003810 PN M22759/34 16 M22759/34 4 /	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE PTFE
Heatshrink Size 23 WIRE AWG16 WIRE AWG4	RW200E-1 1/2-0 or HLR33003810 PN M22759/34 16	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE
Heatshrink Size 23 WIRE AWG16 WIRE AWG4 Fillers Braid Heatshrink	RW200E-1 1/2-0 or HLR33003810 PN M22759/34 16 M22759/34 4 / 4D045591 RW200E-1 1/2-0 or HLR33003810	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE PTFE Nickel copper Fluroelastomeric or Viton
Heatshrink Size 23 WIRE AWG16 WIRE AWG4 Fillers Braid Heatshrink Size 25	PN M22759/34 16 M22759/34 4 / 4D045591 RW200E-1 1/2-0 or HLR33003810	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE PTFE Nickel copper Fluroelastomeric or Viton Raw material
Heatshrink Size 23 WIRE AWG16 WIRE AWG4 Fillers Braid Heatshrink Size 25 WIRE AWG16	PN PN M22759/34 16 M22759/34 4 / / 4D045591 RW200E-1 1/2-0 or HLR33003810 PN M22759/34 16	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE PTFE Nickel copper Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE
Heatshrink Size 23 WIRE AWG16 WIRE AWG4 Fillers Braid Heatshrink Size 25	PN M22759/34 16 M22759/34 4 / 4D045591 RW200E-1 1/2-0 or HLR33003810	Fluroelastomeric or Viton Raw material Tinned copper, jacket ETFE Tinned copper, jacket ETFE PTFE Nickel copper Fluroelastomeric or Viton Raw material

RW200E-1 1/2-0 or HLR33003810 Note that High performance Nickel plated or Silver plated wires can also be used for harsh environment applications,

to withstand higher temperatures.

Heatshrink

Fluroelastomeric or Viton

POWERSAFE / VG96944 - HOW TO ORDER - PROPRIETARY DESIGNATIONS

		1.	2.	3.	4.		5.	6.	7.	
Series She		ell type Crimp contacts 0		Class Contact arrangement		C	ontact gender	Keying	Deviation	
	TV PC		R	W	13-E4		Р		-	
1. She	ll type					4. Conta	act arrangement	t		
			Associated	Associated		13-E4 Size 13 – 4 contacts				
	Shell type	Temperatu	re materials and platings for	materials and platings for		15-E4	Size 15 – 4 contacts			
				V4 & V6 inserts	i	17-E6	Size 17 – 6 cont	acts		
06	o	+175°C*	W, ZN, TZ	W, ZN, TZ, F, K,	S, B	21-E4	Size 21 - 4 conta	acts		
S06	Straight plug	+200° C	F, K, S, B	-		23-E4	Size 23 - 4 conta	acts		
P00	Square flange	+175°C*	W, ZN, TZ	W, ZN, TZ, F, K,	S, B	25-E6	Size 25 – 6 contacts			
PS00	receptacle	+200° C	F, K, S, B	-		Please note that standard inserts have a Comparative Tracking Index (CTI				
07	lam nut recented	+175°C*	W, ZN, TZ	W, ZN, TZ, F, K,	S, B			nd a temperature up to 200°C depending on shell		
S07	Jam nut receptacle	+200° C	F, K, S, B	-		13-V4	Size 13 – 4 cont	acts		
*Max to	manaratura 1175°C	ith a Propriator	waraian incort and +1	50°C with a VC		45.344	0. 45 4			

*Max temperature +175°C with a Proprietary version insert and +150°C with a VG compliant insert

2. Crimp contacts

R For Class W, F, K and B platings

Blank For Class ZN and TZ plating

3. Class: Material & Finish

	Shell material	Shell finish
W		Olive drab cadmium
F	Aluminum	Nickel 🗸
ZN		Black zinc nickel 🗸
TZ		Tin Zinc 🗸
В	Marine bronze 🗸	-
K	Stainless steel	Passivated 🗸

4. Contac	4. Contact analygement						
13-E4	Size 13 – 4 contacts						
15-E4	Size 15 – 4 contacts						
17-E6	Size 17 – 6 contacts						
21-E4	Size 21 - 4 contacts						
23-E4	Size 23 - 4 contacts						
25-E6	Size 25 – 6 contacts						
Please note that standard inserts have a Comparative Tracking Index (CTI) <100V and can withstand a temperature up to 200°C depending on shell material and platings.							
13-V4	Size 13 – 4 contacts						

13-V4	Size 13 – 4 contacts
 15-V4	Size 15 – 4 contacts
 17-V6	Size 17 – 6 contacts
 21-V4	Size 21 - 4 contacts
23-V4	Size 23 - 4 contacts
 25-V6	Size 25 – 6 contacts

Please note that VG inserts have a Comparative Tracking Index (CTI) between 175 & 400V (Material Group IIIa) and can withstand a temperature up to 150°C.

5. Conta	ct gender						
Р	Pin (500 cy	cles)					
S	Socket (500 cycles)						
6. Keying	9						
(Blank) (for normal)	Α		в		С	D	
7. Deviat	ion						
Deviation	De	Description			II type patibility		

Deviation	Description	compatibility
E312	Reduced flange receptacle with a standard nut	07/S07

For other deviations availability. please consult us

POWERSAFE / VG96944 - HOW TO ORDER - VG96944 DESIGNATIONS

		1.	2.	3.		4.	5.	
Series		Shell type	Contact arrangement	Contact gender		Keying	Material and platings	
۷	G96944-04	Α	13-V4	Р		N	Α	
. Shell	l type			3. Co	ntact gender			
A	Square flange receptacle			Р	Pin (500 c	ycles)		
В	Receptacle	Jam nut receptacle		S	Socket (50	0 cycles)		
. Cont 13-V4	act arrangeme Size 13 – 4 co			4. Ke N (for norm	Δ	в	C D	
15-V4	Size 15 – 4 co	ntacts (qualification to com	ne)	5. Ma	terial and pla	tings		
17-V6	Size 17 – 6 co				Shell material Shell finish			
21-V4		ntacts (qualification to com				Olive drab ca	admium	
23-V4	Size 23 - 4 cor	ntacts (qualification to com	e)	A	Aluminum	(13-V4/17-V6	6/25-V6 only)	
25-V6 Size 25 – 6 contacts				J	Tin Zinc \checkmark (Qualification in pro		Qualification in progress)	
		ave a Comparative Tracking Ind I can withstand a temperature u		В	Marine bronze	-		

C: RoHS compliant

Due to technical modifications, all information provided is subject to change without prior notice Designed by Amphenol Socapex

Amphenol SOCAPEX

POWERSAFE / VG96944 - HOW TO ORDER - TV35 BACKSHELLS



		1.	2.	3.		4.	5.		
Series		Backshell style	Backshell size	Cabling chambe	r length Rear si	de diameter	Material and platings		
тv		35	11	10		11	014		
. Backshe	ell style			4. Rear s	ide diameter				
35 Aluminum straight band backshell accepting heatshrink moulded piece					Please refer to Page 15				
B35		ronze straight band backshe k moulded piece	ll accepting	06 08	10 12 14	16 20	24 28 32 36		
				5. Materia	al and platings				
Paakaba		no og connactor sizo)			Shell material	Shell finis	sh		
		ne as connector size)		014		Olive drab	cadmium		
13	15	17 21	23 25	023	A I	Nickel 🗸			
				076F479	Aluminum	Tin Zinc 🗸	-		
. Cabling	chamber le	ength		033K		Black zinc	nickel 🗸		
ease refer to l	Page 15			Blank	Marine Bronze 🗸	-			
10		20 25	30	1		:			

POWERSAFE / VG96944 - HOW TO ORDER - TV NSA DESIGNATIONS



	1.	2.	3.
Series	Backshell style	Backshell size	Material and platings
TV	NSA	13	014

1. Backs	1. Backshell style									
NSA	NSA Screened clamping braid backshell accepting heatshrink moulded piece									
2. Backshell size (same as connector size)										
13	15	17	21	23	25					

3. Mate	3. Material and platings				
	Shell material	Shell finish			
014		Olive drab cadmium			
023	Aluminum	Nickel 🗸			
033K		Black zinc nickel 🗸			

POWERSAFE / VG96944 - HOW TO ORDER - PROTECTIVE CAPS

		1.	2.	3.		4.		5.			6.	
Cap ty	ype	Cap style	Wire type	Series		Material and platings		Cap siz	ze		Deviation	ı
В		EC	N	τν		W		15			-	
Cap sty	le			L	4. Mate	erial and plat	tings					
EC	For Squa	are flange receptacle				Shell mater	ial	Shel	l finish			
ER	For Jam	nut receptacle			W			Olive	drab ca	dmium	ium	
F	F For Plug			F	Nickel 🗸							
					ZN			Black	c zinc nic	kel 🗸		
					TZ			Tin Z	inc 🧹 * s	ee devia	ation F479	9 belo
Wire typ	be				В	Marine Bron	ze 🗸	-				
-	Metal ch	ain										
N	Nylon co	ord										
R	Jacketed	d stainless steel rope				size (same	as connec	tor size)		····;	
RO	Jacketeo	d stainless steel rope v	with washer end (for plugs)		13	15	17	2	1	23	25	
Series					6. Dev	iation						
TV	For Powe	erSafe			F05	57 For Re	duced flang	e Jam nu	t recepta	cle		
					F47	79 Manda	tory fo Tin Z	inc plated	l Caps in	addition	to TZ	

POWERSAFE / VG96944 - HOW TO ORDER - DUMMY RECEPTACLES

CLES	4.
	Shall aiza

	1.	2.	3.	4.
Dummy receptacle	Style	Series	Material and platings	Shell size
SE	00	TVE	W	13

1. Style		
00	Square flange	
2. Series		
TVE	For Power Safe	
3. Material	and platings	
	Shell material	Shell finish
W		Olive drab cadmium

	Shell material	Shell finish
W		Olive drab cadmium
F	Aluminum	Nickel 🗸
ZN	Auminum	Black zinc nickel 🗸
TZ		Tin Zinc 🗸
В	Marine bronze 🗸	-

4. Shell size					
13	15	17	21	23	25
	-	-	-	-	

NOTES

Amphenol Socapex | POWERSAFE

NOTES

ABOUT AMPHENOL

Founded in 1932, **Amphenol** is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

Amphenol has a diversified presence as a leader in high growth areas of the interconnect industry and provides solutions for customers in the automotive, broadband, industrial, information technology and data communications, military and aerospace, mobile devices, and mobile networks markets.

More info on www.amphenol.com

Amphenol

Amphenol Military & Aerospace Operations (AMAO) has the largest and broadest selection of interconnect products in the military and aerospace markets.

More info on www.amphenolmao.com



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