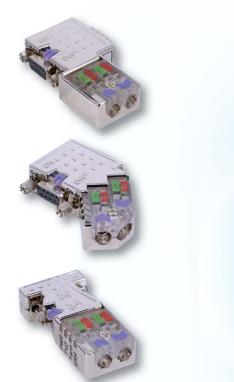


VIPA Profibus Plug

EasyConn PB



EasyConn PB:

The bus connector plug EasyConn PB is used for the connection of Profibus participants to the bus line. The fully visible diagnostic LEDs facilitate the installation considerably. Users can immediately check the status of bus activity, termination resistors, power supply and bus status. The integrated controller supports transmission rate of up to 12MBit/s.

Features:

- Cable slots with transparent covers for high visibility (wiring, position of sreen and cable)
- · Full metal construction for noise immunity and harsh environment
- State monitoring via integrated LEDs for bus diagnosis
- Comfortable IDC technology for fast and reliable wire connection
- Captive singe-screw-mounting system no loose parts
- Integrated switchable termination resistor
- Integrated programming / diagnostic port
- Supporting stranded wire types: LAPP Art. No. 2170222, 2170822, 2170322

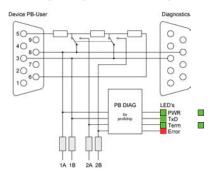
Standard bus line for fixed and flexible wiring Features:

- Bus line according to DIN 19245 and EN 50170
- Two wires stranded (Red/Green)
- Sheathing PVC mixture (violet, RAL4001)
- Flame-retardant according to VDE 0472, part 804, Test procedure B (IEC 332.1)
 - Use of stranded wire
 - (Lapp Cable Art. No. 2170222, 2170822, 2170322)

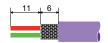


Wiring diagramm - Plug 90°

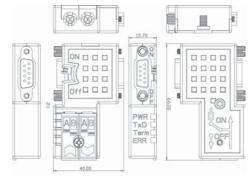
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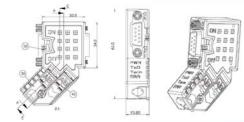
Insulation Stripping



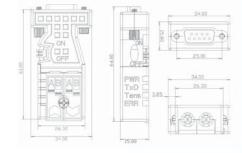




VIPA972-0DP20 - 45°



VIPA972-0DP30 - 0°



					un	or automatio
Techni	cal Data	1		Eas	yConn PB	
Conne	ctions					
Profibus				9pole SubD pin headers		
PG/diagnostics				9pole SubD socket*		
Insertion (withdraw.) cycle				mind. 200		
Cable diameter				8mm		
Fixing screws/max. tightening torque				4-40 UNC/0.4Nm		
Enclos	ure					
Material				die-cast zinc		
dagree of				IP 20		
Voltage supply				DC 4.75 bis 5.25 V		
				(Supply comes from the terminal max. 30mA)		
Power input				max. 30mA		
Temperature range				-20°C bis +75°C		
Insulation stripping lengths				incomming bus line outgoing bus line		
Outer sheath				17mm 17mm		
Shield				11mm	-	11mm
Connection technology				IDC technology		
Bus line				fixed wire Type A (EN 50 170)		
				stranded wire (f. L	app) Type A	(EN 50 170)
	expans					
Transmission speed in kBit/s				max. segment lengths in m		
9,6/19,2/45,45/93,75				1200		
187,5				1000		
500				400		
1500				200		
3000/6000/12000 Name Color LED off LED off						
			LED		LED blinki	. ,
PWR	green	No Power (<4V)	Self	-test finished, Power OK (45,5V)	sible. Blinl	it of bus wire po s simultaneousl ERR LED.
TXD	green	No bus activity		-	Data t	ransfer active
Term	green	No termination		Termination active	Internal terminating resistor faulty. Blinks simultaneously with ERR LED.	
ERR	red	No errors detected		al levels out of defined ran- possibly termination failure in bus line.	possible re	cuit of bus wire spectively intern istor faulty.
		The Profibus device is	s near	ED flashes sporadically/asymmetrically: ar the reference level, which is defined in the Profibus c ng differences were compensated by the protocol.		
Standa	ard bus	line	-			
Flame	retardan	t		VDE 0	472, Teil 804	
Test procedure				B (IEC332.1)		
Pair number/wire diameter				1x2x0.64mm		
External diameter					7.8mm	
Copper number				26kg/km		
Weight ca.				57kg/km		
Surge impedance				150 ±15Ω		
Op. capacitance (800 Hz)				max.30nF/km		
Operating peak voltage				250V (not for heavy current usage)		
Test voltage core/core Ueff				1500V		
Wire resistance (loop)				max.110Ω/km		
Mind. bend radius				75mm		
Tempe	rature ra	nge		-40°0	C bis +70°C	
Orderi	ng infor	mation				
EasyConn PB 90°				VIPA 972-0DP10		
				VIPA972-0DP01 (without integrated diagnosis)		
EasyConn PB 45°				VIPA 972-0DP20		
EasyConn PB 0°				VIPA 972-0DP30		
Due line (2Em to 1000m)						

VIPA 830-0Lx00

VIPA 905-6AA00

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Bus line (25m to 1000m)

EasyStrip (Stripping tool)