

WB series



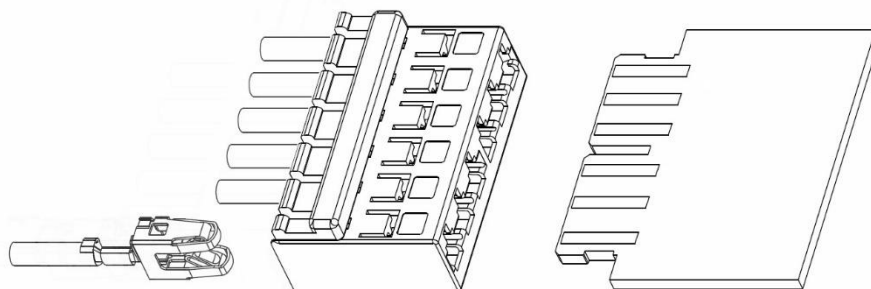
WB connector system **Wire-to-EDGE**

Passo 5.00mm - uscita cavo 180° frontale
Pitch 5.00mm - wire vertical exit 180°

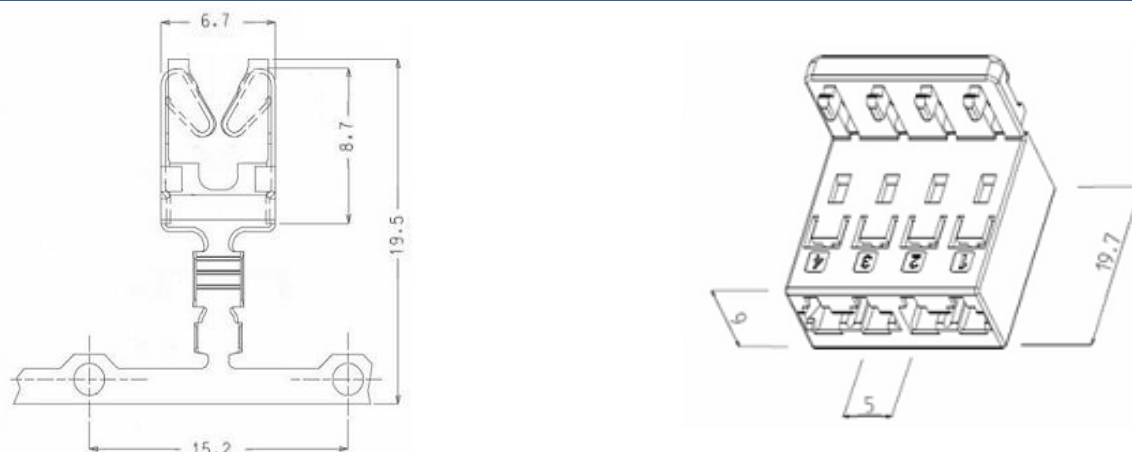
DESCRIZIONE / Overview

La connessione consiste in un connettore multivia passo 5.00mm e un terminale femmina a crimpare con interfaccia Edge per connessione diretta con schede elettroniche. Il connettore ha un sistema di polarizzazione e un sistema secondary lock per evitare lo sgancio accidentale del contatto. L'uscita cavo è frontale in asse con la controparte. Utilizzabili con circuiti di alimentazione o con circuiti di segnale a bassa tensione, i connettori sono disponibili in materiali compatibili con il 'Glow Wire Test' secondo la Norma IEC 60335-1.

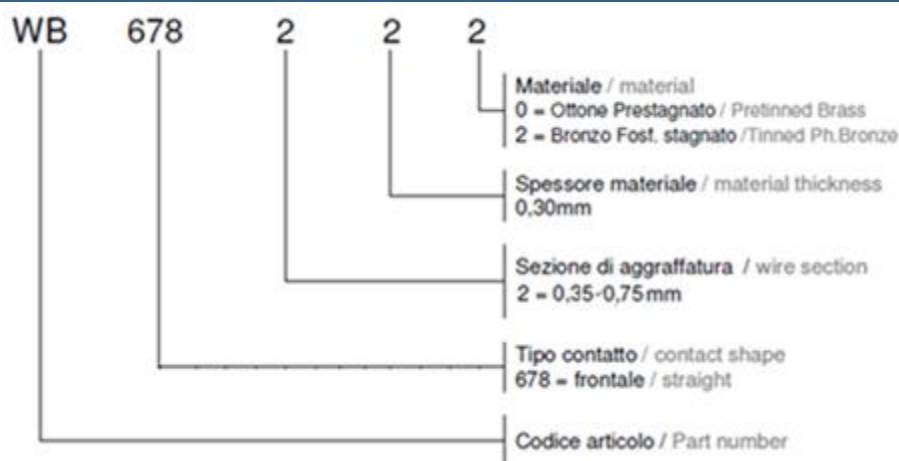
The connector assembly consists of connectors with a 5.00mm pitch and crimp contacts with direct EDGE mating to the printed circuit board (PCB). The housing has a polarizing system and a secondary lock system to avoid accidental terminal release. Housings have wire output on axis with the counterpart. They can be used with low voltage, low current signal circuits and with power supply circuits. Connector housings are available in special Glow Wire Test compatible material, according to the IEC 60335-1.



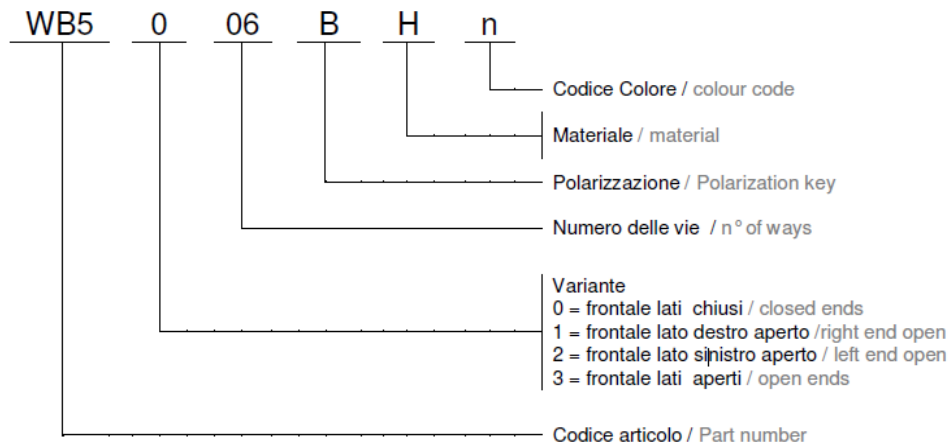
DIMENSIONI / Dimensions



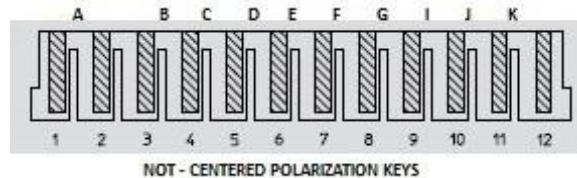
IDENTIFICAZIONE TERMINALI / Contacts Name and Part Number



IDENTIFICAZIONE CONNETTORI / Housings Name and Part Number



CHIAVE DI POLARIZZAZIONE / Polarization Key



Le polarizzazioni sono disassate rispetto ai contatti per una maggiore sicurezza nella connessione e sono indicate da un carattere alfanumerico dalla A alla L, ad eccezione della lettera B che viene omessa nella polarizzazione tra la seconda e la terza perché considerata standard. Infine la lettera N indica l'assenza di polarizzazione.

Polarization key is not-centered for a safer mating to the PC board. They are indicated in the connector code by an alphanumeric character from A to L, with exception of letter B which is omitted in the polarization between second/third circuit because it is considered standard. Finally the letter N indicates the absence of polarization.

CARATTERISTICHE MATERIALI / Materials Specification

Connettori / Housings	PA66-V2, PA66-V0 Glow Wire capable (750°C No flame) according to Directive IEC 60335-1.
Terminali / Contacts	Ottone o Bronzo Fosforoso stagnati / Brass or Phosphor Bronze with tin plating (Lead-Free).

CORRENTI E CAVI APPLICABILI / Ratings and Applicable Wires

Sezioni di cavo applicabili / Applicable wire	0,35 – 0,75 mm ² / 22-18 AWG
Tensione della corrente di lavoro / Rated voltage	250V AC/DC max
Portata di corrente / Rated current (max.)	7 A max

CARATTERISTICHE ELETTRICHE / Electrical Specification

Temperatura d'esercizio / Operating temperature	-40°C ~ +140°C
Resistenza del contatto / Contact resistance	12 mΩ min

CERTIFICAZIONI SUL PRODOTTO / Product Approvals



ECBT2.E490437
ECBT8.E490437

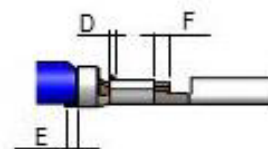
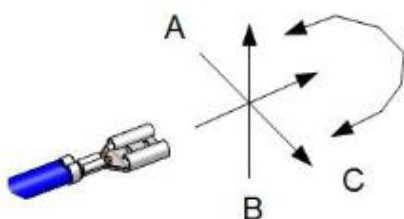
AUTOCERTIFICAZIONI / Product Certification



CARATTERISTICHE MECCANICHE / Mechanical Specification

Forza inserimento Terminale nel connettore / Terminal insertion force into the housing		15 N max			
* Forza estrazione Terminale dal connettore /Terminal retention force from the housing		50 N min			
Forza inserimento Terminale sulla scheda / Terminal insertion force on the PCB		4 N max			
Forza estrazione Terminale dalla scheda / Terminal retention force from the PCB		1 N min			
Forza inserimento e disinserimento del connettore		Insertion		Withdrawal	
Housing insertion and withdrawal force		1 st	6 th	1 st	6 th
		N max	N max	N min	N min
*senza secondary lock	2 poli / 2 circuits	44	35	7	8
secondary lock open	3 poli / 3 circuits	55	47	10	8
	4 poli / 4 circuits	65	57	11	9
(Condizioni dei test : applicata una	5 poli / 5 circuits	75	65	13	10
forza assiale con una velocità di	6 poli / 6 circuits	85	73	14	11
25mm/min)	7 poli / 7 circuits	95	80	16	12
(Tests conditions : applied an axial	8 poli / 8 circuits	104	88	17	13
pull out force at the speed rate	9 poli / 9 circuits	114	96	19	14
25mm/min)					

SPECIFICHE E CONTROLLO DELL' AGGRAFFATURA / Crimp Specification and Quality Chart



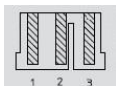
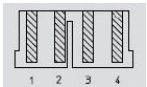
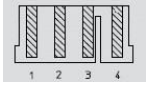
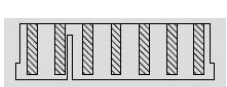
A - Inclinazione orizzontale max	3°
B - Inclinazione vertical max	3°
C - Torsione max	3°
D - Bell mouth	0,2-0.5 mm
E - Testimone taglio massimo / max. cut-off tab lenght	0.5 mm
F - Sporgenza cavo minimo / min. extruded wire lenght	0.5 mm

Dimensioni dell'aggraffatura / Crimped area dimensions

Sezione Wire Sec. mm ²	Applicatore Crimp Model	Codice Part No.	Rame / Conductor		Guaina / Insulation		Trazione Pull out N
			Altezza/Height mm ±0.05	Largh/Width mm ±0.10	Altezza/Height mm ±0.10	Largh/Width mm ±0.10	
1,00	nd	WB678222	1.30-1.40	1.85-1.90	/	2.80	95
0,75			1.10-1.20	1.45-1.55	/	2.80	80
0,50			1.06	1.63	/	2.80	71
0,35			1.02	1.60	/	2.80	52

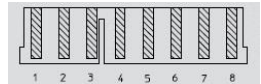
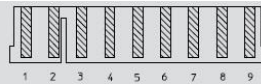
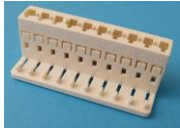
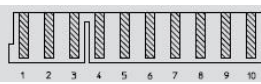
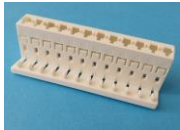
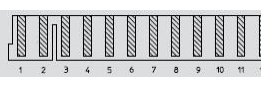
ESTREMITÀ CHIUSE CON DENTE DI AGGANCIO / Closed ends with lock on PCB

DESCRIZIONE Description	PASSO Pitch	CODICE Code	Sezione/wire section		MATERIALE Material	TRATTAMENTO Treatment	CERTIFICATI Approvals	CONF.NE Package
			mm ²	AWG				
	15.2mm	WB478222	0,35-0,75	22-18	Br.Fosforoso Phosphor Br.	Stagnato Tinned		6 x 4.000
	15.2mm	WB678222	0,35-0,75	22-18	Br.Fosforoso Phosphor Br.	Stagnato Tinned		6 x 4.000

DESCRIZIONE Description	n. vie n.circuit	CODICE Code	MATERIALE Material	RATING			CERTIFICATI Approvals	CONF.NE Package
				UL94	RTI	GWT		
		WB5002	PA66	V2	130	---		3.000
		WB5002V0	PA66	V0	140	---		
		WB5002H	PA6	V2	130	750°C noflame		
		WB5002Z	PA66	V0	140	750°C noflame		
		WB5003	PA66	V2	130	---		3.000
		WB5003V0	PA66	V0	140	---		
		WB5003H	PA6	V2	130	750°C noflame		
		WB5003Z	PA66	V0	140	750°C noflame		
		WB5004	PA66	V2	130	---		3.500
		WB5004V0	PA66	V0	140	---		
		WB5004H	PA6	V2	130	750°C noflame		
		WB5004Z	PA66	V0	140	750°C noflame		
		WB5004B	PA66	V2	130	---		3.500
		WB5004BV0	PA66	V0	140	---		
		WB5004BH	PA6	V2	130	750°C noflame		
		WB5004BZ	PA66	V0	140	750°C noflame		
		WB5005	PA66	V2	130	---		2.500
		WB5005V0	PA66	V0	140	---		
		WB5005H	PA6	V2	130	750°C noflame		
		WB5005Z	PA66	V0	140	750°C noflame		
		WB5005N	PA66	V2	130	---		2.500
		WB5005NV0	PA66	V0	140	---		
		WB5005NH	PA6	V2	130	750°C noflame		
		WB5005NZ	PA66	V0	140	750°C noflame		
		WB5006	PA66	V2	130	---		2.500
		WB5006V0	PA66	V0	140	---		
		WB5006H	PA6	V2	130	750°C noflame		
		WB5006Z	PA66	V0	140	750°C noflame		
		WB5007	PA66	V2	130	---		2.000
		WB5007V0	PA66	V0	140	---		
		WB5007H	PA6	V2	130	750°C noflame		
		WB5007Z	PA66	V0	140	750°C noflame		

Le dimensioni sono in millimetri, salvo diversamente specificato.
Dimensions are in millimeters unless otherwise specified.
REV. 2025-1

Le quote dimensionali riportate sono solo di riferimento. Le specifiche sono soggette a cambiamenti. Dimensions are shown for reference purposes only. Specifications are subject to change.

		WB5008C	PA66	V2	130	---		1.000
		WB5008CV0	PA66	V0	140	---		
		WB5008CH	PA6	V2	130	750°C noflame		
		WB5008CZ	PA66	V0	140	750°C noflame		
		WB5009	PA66	V2	130	---		1.000
		WB5009V0	PA66	V0	140	---		
		WB5009H	PA6	V2	130	750°C noflame		
		WB5009Z	PA66	V0	140	750°C noflame		
		WB5010C	PA66	V2	130	---		1.000
		WB5009V0	PA66	V0	140	---		
		WB5010CH	PA6	V2	130	750°C noflame		
		WB5010CZ	PA66	V0	140	750°C noflame		
		WB5012	PA66	V2	130	---		1.500
		WB5012V0	PA66	V0	140	---		
		WB5012H	PA6	V2	130	750°C noflame		
		WB5012Z	PA66	V0	140	750°C noflame		