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### Data sheet PR065xxVBBN Type 177

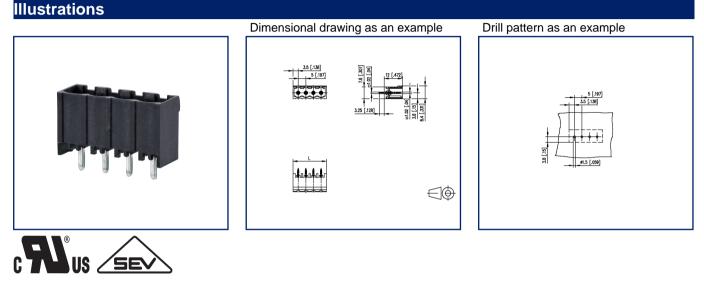


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#### xx=number of poles 2025/04/29

Version: AB



See enlarged drawings at the end of document

#### **Product specification**

- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- closed ends
- color black
- Tape & Reel packaging possible
- codeable

METZ CONNECT GmbH | Im Tal 2 | 78176 Blumberg | Germany Phone +49 7702 533-0 | Fax +49 7702 533-433 Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com



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Solder pin length   3.25 mm     min. number of poles   2     max. number of poles   12     Insulating material class   CTI 600     clearance/creepage dist.   4 mm     Protection category   IP00     Rated current   13.5 A     Overvoltage category   III   II     Pollution degree   3   2   2     Rated voltage   320 V   800 V   800 V     Rated voltage   6 kV   6 kV   6 kV     Approvals   5   5   5     Insulating material   900 / 15   5   5     approval UL - File No.   E121004   5   5     Material   920 V / 4 kV / 13.5 A / 1.0 x 1.0 mm   5     minualiting material   PA66/6T   5   5     flammability class   V0   5   5     Contact pin surface   Cuł + Sn   5   5     Glow-Wire Flammability GWFI   960 °C acc. to IEC 60:695-2-12   5   5     Glow-Wire Flammability GWFI   960 °C acc. to IEC 60:695-2-13   5   5     Cimatic Data   1	General Data					
max. number of poles   12     Insulating material class   CTI 600     clearance/creepage dist.   4 mm     Protection category   IP00     Rated current   13.5 A     Overvoltage category   III   II     Pollution degree   3   2   2     Rated voltage   320 V   800 V   800 V     Rated voltage   6 kV   6 kV   6 kV     Approvals   5   5   5     CMOS   V/A   300 / 15   300 / 15     approval UL - File No.   E121004   5   5     Material   PA66/6T   5   5   5     Insulating material   PA66/6T   5   5   5     Insulating material   PA66/6T   5   5   5     Insulating material   PA66/6T   5   5   5     Isouration in surface   CuMg   5   5   5   5     Glow-Wire Flammability GWFI   960 °C acc. to IEC 60695-2-12   5   5   5     Glow-Wire Flammability GWFI   950 °C   5   5   5 <td>Solder pin length</td> <td>3.25 mm</td> <td></td> <td></td>	Solder pin length	3.25 mm				
Insulating material class   CTI 600     clearance/creepage dist.   4 mm     Protection category   IP00     Rated current   13.5 A     Overvoltage category   III   II   II     Pollution degree   3   2   2     Rated voltage   320 V   800 V   800 V     Rated voltage   6 kV   6 kV   6 kV     Approvals   5   5   5     Solo V/A   300 / 15   5   5     approval UL - File No.   E121004   5   5     Material   320 V / 4 kV / 13.5 A / 1.0 x 1.0 mm   5   5     Material   5   5   5   5     Insulating material   PA66/6T   5   5   5     If ammability class   V0   5   5   5     contact pin material   CuMg   5   5   5     Glow-Wire Flammability GWFI   960 °C acc. to IEC 60695-2-12   5   5   5     Glow-Wire Flammability GWFI   960 °C acc. to IEC 60695-2-12   5   5   5     Upper limit temperature	min. number of poles	2				
dearance/creepage dist.     4 mm       Protection category     IP00       Rated current     13.5 A       Overvoltage category     III     III     II       Pollution degree     3     2     2       Rated voltage     320 V     800 V     800 V       Rated voltage     320 V     800 V     800 V       Rated test voltage     6 kV     6 kV     6 kV       Approvals     Solo / 15     Solo / 15     Solo / 15       approval UL - File No.     E121004     Solo / 1.0 x 1.0 mm       Material     PA66/6T     Solo / 1.0 x 1.0 mm     Solo / 1.0 x 1.0 mm       Insulating material     PA66/6T     Solo / 2.0 C (0.0 S)     Solo / 2.0 C (0.0 S)       Glow-Wire Flammability GAWFI     960 °C acc. to IEC 60695-2-12     Solo / 2.0 C (0.0 S)     Solo / 2.0 C (0.0 S)       Glow-Wire Flammability GWFI     960 °C acc. to IEC 60695-2-13     Solo / 2.0 C (0.0 S)     Solo / 2.0 S)     Solo / 2.0 S)       Glow-Wire Flammability GWFI     960 °C acc. to IEC 60695-2-13     Solo / 2.0 S)     Solo / 2.0 S)     Solo / 2.0 S)       Glow-Wire Flammability GWFI     960	max. number of poles	12	12			
Protection category     IP00       Rated current     13.5 A       Overvoltage category     III     III     II       Pollution degree     3     2     2       Rated voltage     320 V     800 V     800 V       Rated voltage     320 V     800 V     800 V       Rated voltage     6 kV     6 kV     6 kV       Approvals     6 kV     6 kV     6 kV       Approvals     300 / 15     300 / 15	Insulating material class	CTI 600				
Rated current     13.5 A       Overvoltage category     III     III     II       Pollution degree     3     2     2       Rated voltage     320 V     800 V     800 V       Rated voltage     6 kV     6 kV     6 kV       Approvals     6 kV     6 kV     6 kV       Approvals     500 / 15     500 / 15     500 / 15       approval UL - File No.     E121004     500 / 10 × 1.0 mm     500 / 10 × 1.0 mm       Material     320 V / 4 kV / 13.5 Å / 1.0 × 1.0 mm     500 / 10 × 1.0 mm     500 / 10 × 1.0 mm       Material     CuMg     500 / 2 × 1.0 × 1.0 mm     500 / 10 × 1.0 mm     500 / 10 × 1.0 mm       Material     CuMg     500 / 4 kV / 13.5 Å / 1.0 × 1.0 mm     500 / 10 × 1.0 mm     500 / 10 × 1.0 mm       Material     CuMg     500 / 2 × 1.0 × 1.0 mm     500 / 10 × 1.0 mm     500 / 10 × 1.0 mm       Glow-Wire Flammability class     V0     500 × 0 × 1.0 × 1.0 mm     500 / 10 × 1.0 mm     500 × 0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 × 1.0 ×	clearance/creepage dist.	4 mm				
Overvoltage category     III     IIII     III     IIII     IIII     IIII <td>Protection category</td> <td>IP00</td> <td colspan="4">IP00</td>	Protection category	IP00	IP00			
Pollution degree322Rated voltage320 V800 V800 VRated test voltage6 kV6 kV6 kVApprovals6 kV6 kV6 kVConstruction300 / 155 month5 monthapproval UL - File No.E1210045 month5 monthMaterial20 V / 4 kV / 13.5 k / 1.0 x 1.0 mm5 month5 monthMaterialPA66/6T5 month5 month5 monthfammability classV05 month5 monthcontact pin materialCuMg5 month5 monthGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-125 monthGlow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-135 monthClimatic Data105 °C5 month5 monthupper limit temperature105 °C5 month5 monthIoleranceISO 2768 mH5 month5 monthSolderabilityreflowable5 month5 month	Rated current	13.5 A				
Rated voltage320 V800 V800 VRated test voltage6 kV6 kV6 kVApprovals6 kV6 kV6 kVSolor Solor Sol	Overvoltage category	III	III	II		
Rated test voltage6 kV6 kV6 kVApprovalsCNo'sV/A300 / 15approval UL - File No.E121004Image: Second	Pollution degree	3	2	2		
Approvals     CNUS   V/A   300 / 15     approval UL - File No.   E121004     Image: Constant of the second s	Rated voltage	320 V	800 V	800 V		
NusV/A300 / 15approval UL - File No.E121004Image: State Sta	Rated test voltage	6 kV	6 kV	6 kV		
approval UL - File No.E121004Image: Second	Approvals					
Materialinsulating materialPA66/6Tflammability classV0contact pin materialCuMgcontact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperatureupper limit temperature105 °Clower limit temperature105 °Clower limit temperature105 °CSolderabilityISO 2768 -mHSolderabilityreflowable	C SUS V/A	300 / 15				
Materialinsulating materialPA66/6Tflammability classV0contact pin materialCuMgcontact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature105 °Clower limit temperature105 °CSolderabilityISO 2768 -mHSolderabilityreflowable	approval UL - File No.	E121004	E121004			
insulating materialPA66/6Tflammability classV0contact pin materialCuMgcontact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceSolderabilityISO 2768 -mHSolderabilityreflowable		320 V / 4 kV /	13.5 A / 1.0 x 1.0 n	nm		
flammability classV0contact pin materialCuMgcontact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceSolderabilityISO 2768 -mHSolderabilityreflowable						
contact pin materialCuMgcontact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceSolderabilityISO 2768 -mHSolderabilityreflowable		PA66/6T	PA66/6T			
contact pin surfaceCu + SnGlow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceToleranceISO 2768 -mHSolderabilityreflowable		-	-			
Glow-Wire Flammability GWFI960 °C acc. to IEC 60695-2-12Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Data105 °Cupper limit temperature105 °Clower limit temperature-40 °CgeneralISO 2768 -mHSolderabilityreflowable	contact pin material		-			
Glow-Wire Flammability GWIT775 °C acc. to IEC 60695-2-13Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceISO 2768 -mHSolderabilityreflowable	contact pin surface	Cu + Sn	Cu + Sn			
Climatic Dataupper limit temperature105 °Clower limit temperature-40 °CgeneralToleranceToleranceISO 2768 -mHSolderabilityreflowable	Glow-Wire Flammability GWFI	960 °C acc. to	960 °C acc. to IEC 60695-2-12			
upper limit temperature105 °Clower limit temperature-40 °CgeneralISO 2768 -mHSolderabilityreflowable	Glow-Wire Flammability GWIT	775 °C acc. to	775 °C acc. to IEC 60695-2-13			
Iower limit temperature-40 °CgeneralISO 2768 -mHSolderabilityreflowable	Climatic Data					
generalToleranceISO 2768 -mHSolderabilityreflowable	upper limit temperature	105 °C	105 °C			
Tolerance ISO 2768 -mH   Solderability reflowable	lower limit temperature	-40 °C	-40 °C			
Solderability reflowable	general					
	Tolerance	ISO 2768 -mH	ISO 2768 -mH			
	Solderability	reflowable	reflowable			
Application note	Application note					





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#### **Technical Data**

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).





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#### Accessories

**P/N** 700024-01-9 700523-0157

### Designation

Coding star white Geh\_Kappe\_swg\_Block





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Counterpart of			
P/N	Designation		
313131	RP035xxHBLC Type 313		
313141	RP035xxHBLD Type 314		
31314103-08	RP035xxHBLD Typ 314		
31314103-09	RP035xxHBLD Typ 314		
313491	RP015xxVBLC Type 349		
313501	RP015xxSBLC Type 350		
ASP045	SP045xxVBNC ASP045		
SP065XXVBNC	SP065xxVBNC		
SP065XXVBPC	SP065xxVBPC		
SP995XXVBNC	SP995xxVBNC		





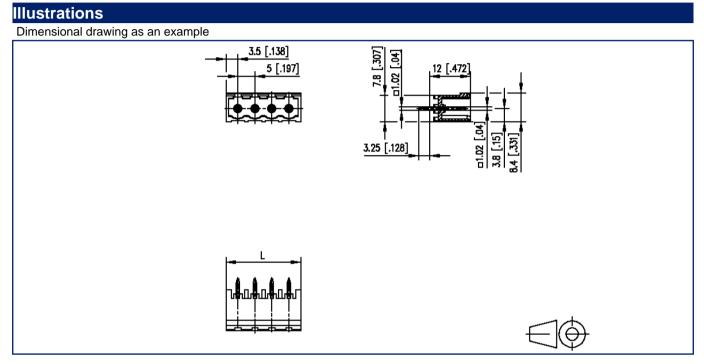
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L=(pole size - 1) x centerline + 7 mm [0.276]





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