

## MR23 Circular connector

160V- 10A

## Technical characteristics

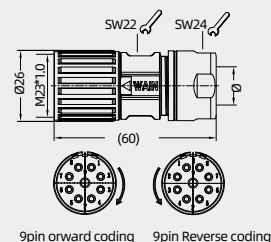
| Specifications             |                   |                         |                         |
|----------------------------|-------------------|-------------------------|-------------------------|
| Specifications             | DIN EN 60 664     |                         |                         |
|                            | DIN EN 61 984     |                         |                         |
| Approvals                  |                   |                         |                         |
| Electrical data            |                   | Mechanical date         |                         |
| Number of contacts         | 9 (8+1)           | Housing material        | copper alloy,zinc alloy |
| Rated current              | 10A               | Housing surface         | Nickel-plated           |
| mm²/ AWG                   | 0.03-1.0+0.35-2.5 | Contact resistance      | ≤ 5 mΩ                  |
| Rated voltage              | 160 V             | Insulating bodies       | PBT                     |
| Rated impulse voltage      | 2.5 kV            | Contact material        | copper alloy            |
| Pollution degree           | 3                 | Contact surface         | gold plated             |
| Flammability acc. to UL 94 | V0 (UL94)         | Mechanical working life | >500                    |
| Overvoltage categorie      | III               | Degree of protection    | IP67                    |
|                            |                   | Limiting temperature    | -40°C ...+130°C         |

Forward coding, Crimp terminal  
order crimp contacts separately

| Contacts | Cable outlet | Designation         | Order No.        |
|----------|--------------|---------------------|------------------|
| 9        | 4.5-8mm      | MR23-009-T-D8-SH    | 181 009 400 2504 |
|          | 6-10mm       | MR23-009-T-D10-SH   | 181 009 400 2502 |
|          | 9-14.5mm     | MR23-009-T-D14.5-SH | 181 009 400 2501 |

Reverse coding, Crimp terminal  
order crimp contacts separately

| Contacts | Cable outlet | Designation          | Order No.        |
|----------|--------------|----------------------|------------------|
| 9        | 4.5-8mm      | MR23-009R-T-D8-SH    | 181 009 400 2503 |
|          | 6-10mm       | MR23-009R-T-D10-SH   | 181 009 400 2505 |
|          | 9-14.5mm     | MR23-009R-T-D14.5-SH | 181 009 400 2506 |



## Crimp contacts

## Crimp contacts 9A

9A



| NO. | Wire gauge(mm <sup>2</sup> ) | Male          | Order No.        |
|-----|------------------------------|---------------|------------------|
| ①   | 0.03-0.34                    | M23-MC9G-0.34 | 101 031 210 2501 |
| ②   | 0.14-1.0                     | M23-MC9G-1.0  | 101 031 210 0801 |

| NO. | Wire gauge(mm <sup>2</sup> ) | Female        | Order No.        |
|-----|------------------------------|---------------|------------------|
| ①   | 0.03-0.34                    | M23-FC9G-0.34 | 101 031 220 2501 |
| ②   | 0.14-1.0                     | M23-FC9G-1.0  | 101 031 220 0801 |

| NO. | Φa  | Φb   | Stripping Length |
|-----|-----|------|------------------|
| ①   | 1.7 | 0.9  | 4mm              |
| ②   | 2.1 | 1.45 | 4mm              |

| NO. | Φa  | Φb   | c  | Stripping Length |
|-----|-----|------|----|------------------|
| ①   | 1.7 | 0.9  | 14 | 4mm              |
| ②   | 2.1 | 1.45 | 14 | 4mm              |

## Crimp contacts 20A

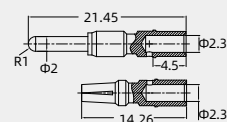
20A



| NO. | Wire gauge(mm <sup>2</sup> ) | Male           | Order No.        |
|-----|------------------------------|----------------|------------------|
| ①   | 0.35-2.5                     | MR23-MC20G-2.5 | 101 020 210 1001 |

| NO. | Wire gauge(mm <sup>2</sup> ) | Female         | Order No.        |
|-----|------------------------------|----------------|------------------|
| ①   | 0.35-2.5                     | MR23-FC20G-2.5 | 101 020 220 1001 |



## Tools

## Crimping tool



| Wire gauge             | Designation | Order No.        |
|------------------------|-------------|------------------|
| 0.14-4 mm <sup>2</sup> | TL28-2      | 198 001 001 0039 |

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.