

Industrial Ethernet Cables



- PN 654 UL** PVC Profinet type A, for fixed installation with UL recognition
- PN 661** Halogen-free Profinet type B, for flexible applications with UL recognition
- S PN 668** PUR Profinet type C, continuous flex, suitable for cable tracks



Marking for PN 661 6612202:

SAB BRÖCKSKES · D-VIERSEN · S PN 661 Profinet CAT 5 Type B 2x2x22AWG AWM Style 21080 80° 300V CE

"Fast Connect" construction

| Construction: | PN 654 UL Profinet type A <i>fixed installation</i> | PN 661 Profinet type B <i>flexible</i> | S PN 668 Profinet type C <i>continuous flex</i> |
|-------------------------|--|---|--|
| Item numbers: | 6549002 | 6612202 | 6682202 |
| Dimensions: | 2 x 2 x 22 AWG | 2 x 2 x 22 AWG | 2 x 2 x 22 AWG |
| Conductor: | bare copper wire | bare copper strands, fine wires with reference to VDE 0812 | tinned copper strands, extra fine wires |
| Insulation: | SABIX® | PE, L/MD acc. to EN 50290-2-23 | PE |
| Color code: | blue, yellow, white, orange | blue, yellow, white, orange | blue, yellow, white, orange |
| Stranding: | star quad | star quad | in layers |
| Wrapping: | PETP foil | PETP foil | PETP foil |
| Inner jacket: | PVC | thermoplastic material | thermoplastic material |
| Wrapping: | alu foil | alu foil | alu foil |
| Shielding: | tinned copper braiding | tinned copper braiding | tinned copper braiding |
| Wrapping: | --- | non-woven tape | non-woven tape |
| Jacket material: | PVC | SABIX® | PUR |
| Jacket color: | green (similar RAL 6018) | green (similar RAL 6018) | green (similar RAL 6018) |

| Technical data: | PN 654 UL Profinet type A <i>fixed installation</i> | PN 661 Profinet type B <i>flexible</i> | S PN 668 Profinet type C <i>continuous flex</i> |
|---------------------------------------|--|---|--|
| Peak operating voltage: | max. 350 V | max. 350 V | max. 350 V |
| Voltage UL: | 300 V | 300 V | --- |
| Testing voltage: | | | |
| conductor/conductor: | 2000 V | 2000 V | 1500 V |
| conductor/shielding: | 2000 V | 2000 V | 1200 V |
| Min. bending radius: | | | |
| fixed installation: | 5 x O.D. | 5 x O.D. | 5 x O.D. |
| free movement: | --- | 12 x O.D. | 12 x O.D. |
| continuous flex: | --- | --- | 15 x O.D. |
| Temperature range VDE: | | | |
| static: | UL: up to +80°C -30/+70°C | UL: up to +75°C -40/+70°C | -40/+70°C |
| flexible: | -5/+70°C | -30/+70 °C | -30/+70°C |
| Halogen-free: | --- | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Oil resistance: | acc. to internal standard see page O/29 | --- | TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Characteristic impedance: | 100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 + VDE 0819-2-2 (CAT 5 acc. to EN 50173-1) | | |
| UL Style: | 2464 | 21080 | --- |
| Application: | suitable for EtherCAT and EtherNET/IP applications | | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see page O/30 | | |

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| item no. | type | dimensions AWG | max. cond.-ø mm | outer-ø | | cable weight ≈lbs/mft | ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km |
|-----------|-----------|-------------------|-----------------------|-------------|-----------|-----------------------------|---|
| | | | | inch ±5% | mm ±5% | | |
| ▶ 6549002 | PN 654 UL | 22/4c | 1.55 | 0.256 | 6.5 | 44 | 54.1 |
| ▶ 6612202 | PN 661 | 22 (≈ 7/30)/4c | 1.55 | 0.260 | 6.6 | 47 | 55.4 |
| ▶ 6682202 | S PN 668 | 22 (≈ 19/34)/4c | 1.55 | 0.252 | 6.4 | 39 | 58.0 |

Other dimensions and colors are available on request

Also possible as a cable assembly with M12 or RJ 45 plug

CABLE ASSEMBLY POSSIBLE

