

Industrial Ethernet Cables CAT 7A

CATLine CAT 7A S Gigabit Ethernet cable suitable for cable tracks

CATLine CAT 7A RT Gigabit Ethernet cable suitable for suitable for robots



Marking for CATLine CAT 7A S 17774631:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat.7A S 4x2x26AWG 1777-4631 **UL** AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 **CE**



| Construction: | CATLine CAT 7A S <i>suitable for cable tracks</i> | CATLine CAT 7A RT <i>suitable for robots</i> |
|-------------------------|--|--|
| Item numbers: | 17774631 / 17774431 | 17874631 / 17874431 |
| Dimensions: | 4 x 2 x 26 AWG / 4 x 2 x 24 AWG | 4 x 2 x 26 AWG / 4 x 2 x 24 AWG |
| Conductors: | bare copper strands, fine wires | bare copper strands, fine wires |
| Insulation: | special polymer | special polymer |
| Color code: | white-blue/blue, white-orange/orange, white-green/green, white-brown/brown | white-blue/blue, white-orange/orange, white-green/green, white-brown/brown |
| Stranding: | conductors twisted to pairs, pairs shielded with foil, pairs together | conductors twisted to pairs, pairs shielded with foil, pairs together |
| Shielding: | aluminized non-woven tape | aluminized non-woven tape |
| Shielding: | tinned copper braiding | tinned copper braiding |
| Wrapping: | non-woven tape | non-woven tape |
| Jacket material: | PUR | PUR |
| Jacket color: | green (similar RAL 6018) | green (similar RAL 6018) |

| Technical data: | CATLine CAT 7A S <i>suitable for cable tracks</i> | CATLine CAT 7A RT <i>suitable for robots</i> |
|--|--|---|
| Peak operating voltage: | max. 90 V | max. 90V |
| Voltage UL/CSA: | 300 V | 300 V |
| Testing voltage: conductor/conductor: conductor/shielding: | 2000 V 2000 V | 2000 V 2000 V |
| Min. bending radius: fixed installation: free movement: continuous flex: | 5 x O.D. 10 x O.D. 15 x O.D. | 5 x O.D. 10 x O.D. — |
| Torsion angle: | — | up to ± 180°/m |
| Temperature range VDE: static: flexible: | UL/CSA: up to +80°C -40/+70°C -40/+70°C | UL/CSA: up to +80°C -40/+70°C -40/+70°C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 UL Horizontal Flame Test FT2 | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 UL Horizontal Flame Test FT2 |
| Oil resistance: | TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 | TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Characteristic impedance (100 MHz): | 100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 + VDE 0819-9-2 / CAT 7A | |
| Flexibility: | very good | very good |
| UL Style: | 20549 | 20549 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see page O/30 | |

| item no. | type | dimensions AWG | max. cond.-ø mm | nominal outer-ø inch | mm | cable weight ≈lbs/mft |
|------------|-------------------|-------------------|-----------------------|-------------------------|------|-----------------------------|
| ▶ 17774631 | CATLine CAT 7A S | 26 (≈ 7/34)/4pr | 1.50 | 0.355 | 8.5 | 54 |
| ▶ 17774431 | CATLine CAT 7A S | 24 (≈ 7/34)/4pr | 1.60 | 0.409 | 10.4 | 68 |
| ▶ 17874631 | CATLine CAT 7A RT | 26 (≈ 7/34)/4pr | 1.50 | 0.350 | 8.9 | 56 |
| ▶ 17874431 | CATLine CAT 7A RT | 24 (≈ 7/34)/4pr | 1.60 | 0.366 | 9.3 | 66 |

Other dimensions and colors are available on request

+90°C
on request

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

CABLE ASSEMBLY POSSIBLE

