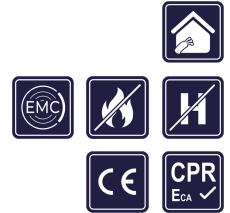




### USE OF CABLE

for transmitting of digital and analog signals for all ICT network applications at frequencies up to 250 resp. 500 MHz. Main use in/on buildings with high terminal density, such as in office, administration, research & development buildings in the tertiary sector. Patch cables are designed for cabling in the workplace area for device connection or as switchboard cables in patch panels.



### SPECIAL FEATURES

- suits to the requirements of: EN 50173, ISO/ IEC11801, TIA / EIA 568, TSB36, EN 50288, IEC61156-5
- for use in LANs like IEEE802.3: 10/100/1000 Base-T; Cat.6A: 10GBase-T; IEEE802.5: FDDI, ISDN, ATM.
- suitable for transfer of Power over Ethernet (PoE) / PoE +
- LSZH: halogen-free, flame retardant, low smoke density (LowSmokeZeroHalogen)
- Note: U/UTP = UTP\*/F/UTP = UTP/S\*/SF/UTP = UTP/BS\*,S-FTP\*

\*old description

### REMARKS

- conform to RoHS // conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- acc. to standards ISO/IEC 11801 resp. EN 50173 the cable length should not exceed a length of 100 m (90 m cable duct + 10 m workplace) in tertiary area (horizontal area, floor)
- further types and special types upon request

## PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Single wire or strand
Core insulation:	SFS-PE resp. PE
Core identification:	Whbu-bu, whog-og, whgn-gn, whbn-bn (resp. wh-bu, wh-og, wh-gn, wh-bn - at FTP types)
Stranding:	Cores twisted to pair
Shield:	U/UTP: unshielded F/UTP: plastic clad aluminium foil as overall shield U/FTP: plastic clad aluminium foil as pair shield F/FTP: plastic clad aluminium foil als pair- & overall shield S/FTP: copper braided tinned as overall shield & plastic clad aluminium foil as pair shield
Outer sheath:	PVC or halogenfree special compound
Sheath colour:	PVC: grey; LSZH: orange
Loop resistance:	AWG24/1: max. 19 Ω/100 m; AWG23/1: max. 16 Ω/100 m
Capacity:	Cat.6: nom. 50nF/km; Cat.6A nom. 45 nF/km
Characteristic impedance:	100 Ω ± 15% at 100 MHz
Min. bending radius fixed:	4 x d
Min. bending radius moved:	8 x d
Operat. temp. fixed min/max:	-20 °C / +60 °C
Operat. temp. moved min/max:	0 °C / + 50 °C (during installation)
Halogen free:	LSZH: acc. to IEC 60754-2
Smoke density:	LSZH: acc. to IEC 61034
Corrodibility:	LSZH: acc. to EN 50267-2-2
Burning behavior:	Flame-retardant and self-extinguishing acc. to IEC 60332-1-2; type F/FTP, S/FTP LSZH AWG24/1 additional acc. to IEC 60332-3-24
Standard:	EN 50173, ISO/IEC 11801, TIA/EIA 568, TSB36, EN 50288, IEC 61156-5, PoE: IEEE 802.3af

## ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003469	4 X 2 X AWG 24/1	6,3	18,00	46,00	grey	V1: Cat.6 - 250: PVC - feste Verlegung / fixed installation
2002426	4 X 2 X AWG 24/1	6,3	18,00	46,00	orange	V2: Cat.6 - 250: LSZH - feste Verlegung / fixed installation
2003432	4 X 2 X AWG 24/1	7,2	19,00	55,00	orange	V2: Cat.6 - 250: LSZH - feste Verlegung / fixed installation
2002427	4 X 2 X AWG 23/1	7,7	27,00	58,00	grey	V3: Cat.6A - 500: PVC - feste Verlegung / fixed installation
2002428	4 X 2 X AWG 23/1	7,3	22,00	54,00	orange	V4: Cat.6A - 500: LSZH - feste Verlegung / fixed installation
2002429	4 X 2 X AWG 23/1	7,4	22,00	58,00	orange	V4: Cat.6A - 500: LSZH - feste Verlegung / fixed installation