4 pair cable Data communication systems for Ethernet technology

ETHERLINE® 4 pair: CAT.6A/CAT.7; stationary
Industrial Ethernet cable for stationary applications

LAPP KABEL STUTTGART ETHERLINE® P PiMF CAT.6A

LAPP KABEL STUTTGART ETHERLINE® H PiMF CAT.7

ETHERLINE® CAT.6A and CAT.7 cables are suitable for stationary applications. The 4 pairs are individually wrapped in metal foil and the overall braid provides additional protection against EMI. Three different jacket options are available.

■ Construction

Conductors: solid bare copper

Pairs: 4 pairs, individually shielded with foil tape

Insulation: polyethylene

Shielding: overall copper braid

Jacket: PVC, polyurethane, or halogen-free; green

■ Recommended applications

Stationary applications in harsh industrial environments; dry or damp rooms; CAT.6A = 500 MHz; CAT.7 = 600 MHz

■ Application advantage

• Suitable for EtherCAT® & EtherNet/IP applications
• PUR jacket is highly resistant to mineral oils and abrasion
• Suitable for PoE per IEEE 802.3at

■ Approvals

RoHS ✓

EtherCAT® Technology Group

EtherNet/IP™

Cable attributes	page 648
See attribute list by part number on page 234	

Complete the installation

SKINTOP® MS-SC page 522

ÖLFLEX® CONNECT solution

Industrial Ethernet cordsets page 620

■ Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter

Temperature range:
- PUR & PVC: –40°C to +80°C
- halogen-free: –25°C to +80°C

Nominal voltage: 100V (not for power applications)

Test voltage: 700V

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals: RoHS

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	Fast connect	PoE	Nominal outer diameter		Approx. weight	SKINTOP® MS-SC
								in	mm	lbs/mft	PG thread
CAT.6A											
2170464	22 AWG/4pr	solid	PVC	green	–	no	yes	0.343	8.7	66	53112220
2170465	22 AWG/4pr	solid	PUR	green	–	no	yes	0.343	8.7	61	53112220
2170466	22 AWG/4pr	solid	halogen-free	green	–	no	yes	0.343	8.7	67	53112220
CAT.7											
2170474	22 AWG/4pr	solid	PVC	green	–	no	yes	0.343	8.7	66	53112220
2170475	22 AWG/4pr	solid	PUR	green	–	no	yes	0.343	8.7	61	53112220
2170476	22 AWG/4pr	solid	halogen-free	green	–	no	yes	0.343	8.7	67	53112220

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.