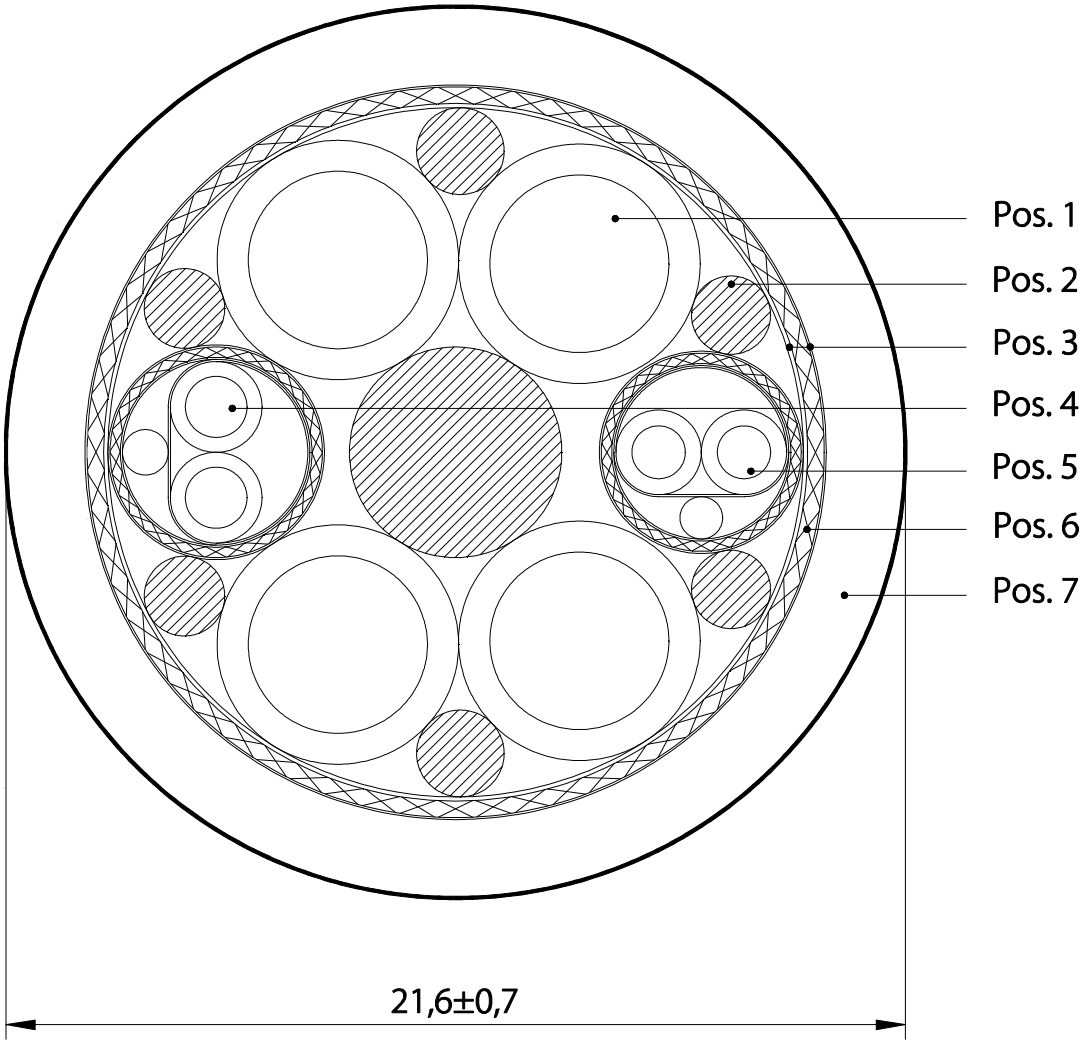
LEONI Part No.:

LEHC 004905 Rev.0

Construction



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Cable description

Pos. 1	**4 insulated wires 10 mm²**	
	conductor	bare copper, single wire 0,20 mm in accordance to DIN EN 60228 cl. 6 / IEC 60228 cl. 6
	insulation	PP
	colours	black wires with white numbers 1-– 3, greenyellow
Pos. 2	**filler**	
Pos. 3	**tapings**	
Pos. 4	**shielded pair 2x1,5 mm²**	
	conductor	bare copper, single wire 0,15 mm in accordance to DIN EN 60228 cl. 6 / IEC 60228 cl. 6
	insulation	PP
	colours	black wires with white numbers 7 – 8
	taping	
	drainwire 0,5 mm²	tin plated copper, single wire 0,15 mm
	1. shielding	both sides aluminized polyester tape
	2. shielding	braiding of tinned copper wires 0,128 mm optical covering min. 85 %
	taping	
Pos. 5	**shielded pair 2x1,0 mm²**	
	conductor	bare copper, single wire 0,15 mm in accordance to DIN EN 60228 cl. 6 / IEC 60228 cl. 6
	insulation	PP
	colours	black wires with white numbers 5 – 6
	taping	
	drainwire 0,5 mm²	tin plated copper, single wire 0,15 mm
	1. shielding	both sides aluminized polyester tape
	2. shielding	braiding of tinned copper wires 0,128 mm optical covering min. 85 %
	taping	
Pos. 6	**shielding**	braiding of tinned copper wires 0,20 mm optical covering min. 85 %
Pos. 7	**outer jacket**	Polyurethan in accordance to DIN VDE 0282 part 10 / HD22.10 S2
	colour	orange mat following RAL 2003
	overprint in black with Inkjet	LEONI A FieldLink MC LEHC 004905 Rev.0 [4x10+(2x1,0)+(2x1,5)] XX/YYYY E47543 c UL us AWM STYLE 20234 I/II A/B 80°C 1000V FT-1
	XX	production week
	YYYY	production year
	outer diameter	**21,6 ± 0,7 mm**

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Electrical properties

operating voltage	Pos. 1		U_0/U 0,6/1,0 kV
	Pos. 1	according c UL us	max. 1000 V
	Pos. 4, 5		max. 24 V
	Pos. 4, 5	according c UL us	max. 1000 V
test voltage	Pos. 1 conductor/conductor		4,0 kV 50Hz AC
	Pos. 1 conductor/shield		3,0 kV 50Hz AC
	Pos. 4, 5 conductor/conductor		4,0 kV 50Hz AC
	Pos. 4, 5 conductor/shield		3,0 kV 50Hz AC
conductor resistance	Pos. 1		max. 1,91 Ω/km at +20°C
	Pos. 4		max. 13,3 Ω/km at +20°C
	Pos. 5		max. 19,5 Ω/km at +20°C

Mechanical properties

bending radius	for fixed installation	min. 6 x outside diameter
	for drag chain installation	min. 12 x outside diameter*
acceleration		max. 5 m/s²
traversing speed		max. 180 m/min
bendings in drag chains		min. 10.000.000
torque at a lenght of 1000 mm		max. ± 30 degree
horizontal lenght of the cable		max. 5 m
total weight		nom. 838 kg/km

Thermal properties

treatment and installation		-20°C bis +60°C
transport and stocking		-50°C bis +80°C
operating	for fixed installation	-50°C bis +80°C
	for drag chain installation	-20°C bis +60°C
short cut		max. +150°C (≤ 5 sec.)

Chemical properties

oil resistant in accordance to VDE 0282 part 10 / HD 22.10 S2 (test method to EN60811-2-1)
flame retardant in accordance to UL 1581 Vertical Wire Flame Test (VW-1)
flame retardant in accordance to CSA C22.2 Vertical Flame Test (FT-1)
flame retardant in accordance to IEC 60332-1-2
halogen free in accordance to IEC 60754-2
free of silicon and FCKW

the cable corresponds to EU – directive 2002/95/EG (RoHS)

Standard

UL Subject 758, Style 20234 and CSA - C22.2 No. 210

E 47543

Cable is approved to UL Style 20234 80°C 1000V VW-1 and cUL AWM I/II A/B 80°C 1000V FT-1