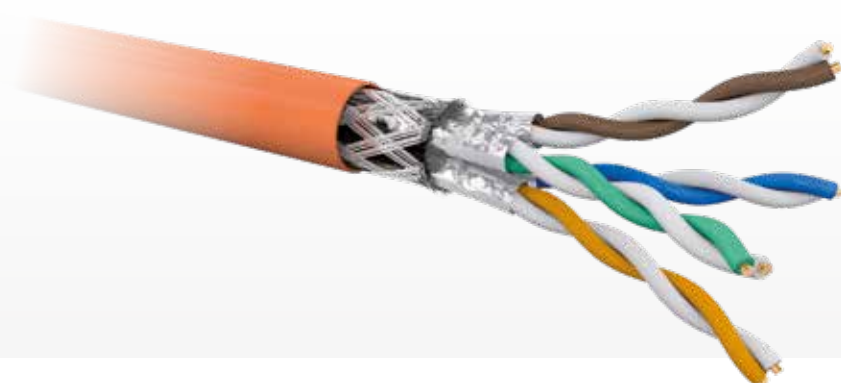


## CAT7 PIMF S/FTP LSHF Dca 900 MHz CABLE



### APPLICATIONS

- IEEE802.3:  
10GBase-T, 5GBase-T, 2.5GBase-T,  
1000Base-T (Gigabit Ethernet),  
100Base-Tx, 10Base-T
- ANSI / TIA / EIA: 1000Base-Tx
- IEEE 802.3at/af (PoE/PoE+)

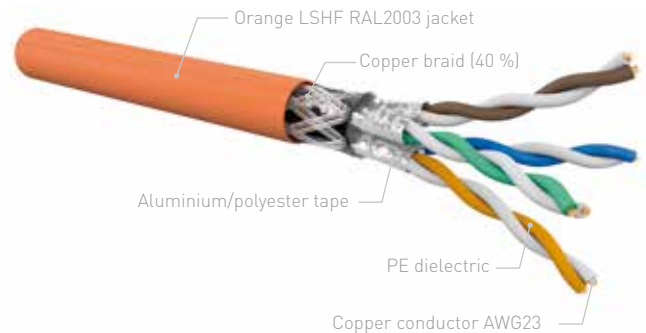
This cable is manufactured a way to exceed the ISO/TIA and CENELEC for Category 7. Can be easily integrated into a Class F link performance. It's backward compatibility with Cat6A components for Class EA link performance (10 Gigabit Ethernet).

Each PIMF cable consist of 4 pairs individually wrapped in a high quality covering process with strong aluminium/polyester foil tape. An overall shield coverage is also included for better EMC.

### MECHANICAL CHARACTERISTICS

ITEM	JACKET	CONDUCTORS	INSULATION (MM)	EXTERNAL DIAMETER (MM)	GROSS WEIGHT (KG)	BENDING RADIUS (MM)	INSTALLATION TENSION (N)
4	LSHF	AWG23	1,35	7,3	55	63	110
2x4	LSHF	AWG23	1,35	7,2 x 15	110	63	220

- Temperature rating (operation): 0 °C to +50 °C
- Temperature rating (installation): -20 °C à +60 °C
- Standards: ANSI/TIA-568-C.2 (CAT7)  
EN50173  
ISO/IEC11801 2nd Ed. Amd 2 CAT6A  
IEC 61156-5 : Ed.2.0
- Fire behaviour:  
EN 13501-6: Dca, s2, d2, a2  
EN 50575, EN 50399, EN 60332-1-2



### CABLE MARKED

4P: GIGAMEDIA EN 50173 CAT7 S/FTP LSHF -C7SF4PHF-TP014A – Dca NVP 79% 4PAIR 23 AWG [lot n°] XXXXX m  
2x4P: GIGAMEDIA EN 50173 CAT7 S/FTP LSHF -C7SF4PHF-TP018A – Dca NVP 79% 2X4PAIR 23 AWG [lot n°] XXXXX m

## TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	ATTENUATION (dB/100 m)	NEXT (dB)	PSNEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	Return loss (dB)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
450.0	44.8	85	82	40	37	61	58	22
600.0	43.0	86	83	43	40	61	58	22
750.0	52.0	83	80	31	28	59	56	21
900.0	59.4	82	79	23	20	58	55	20
1000.0	63.1	80	77	17	14	57	54	20

- Insulation resistance (500 V):  $\geq 2000 \text{ M}\Omega \cdot \text{km}$
- Propagation delay:  $\leq 427 \text{ ns}/100\text{m}$
- Delay skew:  $\leq 12 \text{ ns}/100\text{m}$
- Transfer impedance: at 1 MHz  $\leq 20 \text{ m}\Omega/\text{m}$   
at 10 MHz  $\leq 30 \text{ m}\Omega/\text{m}$   
at 30 MHz  $\leq 40 \text{ m}\Omega/\text{m}$   
at 100MHz  $\leq 200 \text{ m}\Omega/\text{m}$
- Coupling attenuation: 75 dB
- Characteristic impedance: (1-100 MHz)  $(100 \pm 5) \Omega$   
(100 - 250) MHz  $(100 \pm 10) \Omega$   
(250 - 600) MHz  $(100 \pm 15) \Omega$
- Nominal velocity of propagation : 79 %
- Loop resistance : 165  $\Omega/\text{km}$

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION		
GGM C7SF4PHFT5	4 pairs CAT7 PIMF S/FTP LSHF 900 MHz Dca	orange	500 m drum
GGM C7SF2X4PHFT5	2 x 4 pairs CAT7 PIMF S/FTP LSHF 900 MHz Dca	orange	500 m drum