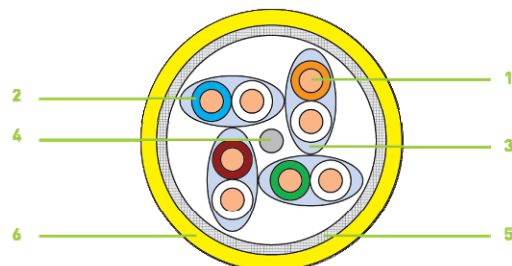


SF12004SHFR



1. **Conductor** : Solid bare copper AWG 22
2. **Isolant** : PE foam skin
3. **Individual shield of pairs** : Aluminium/Synthetic foil aluminium face outwards covering 100%
4. **Shielding** : Tinned copper braid coverage
5. **Outer jacket** : LSZH – Yellow RAL 1021

Application

Individually shielded pairs with Aluminium foil and general braid Cable S/FTP, it's used in a horizontal or vertical configuration (Backbone), it constitutes the base of a V.D.I (Voice Data Image) network to very high bit rate and benefits from an excellent immunity (EMC)

Its double shielding, general braid and shielding aluminium by pair, guarantees an excellent protection against electro magnetic perturbations, it's recommended for the use of the VOIP, of the POE, defined by the standard IEEE 802.3af, and the management of the 10 Ethernet gigabit, and Terrestrial TV signals on a pair.

Its performances exceed the limits imposed by the current standards, it constitutes an investment for the future networks applications.

This cable is used for transmission of digital and analogue voice, Data and video signals.

It can transmit :

- ISDN - RNIS
- TOKEN RING 4/16 Mbits
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622 Mbits/s and 1,2Gbits
- ETHERNET 10 Base T
- ETHERNET 100 Base Tx, 100 Base T4
- ETHERNET 1000 Base T – GIGABIT Ethernet
- IEEE 802.3 af – PoE (Power Over Ethernet) and future PoE+
- 10 GIGABIT ETHERNET (Up to 100 m)

Standards

CABLE	IEC 61156-5 CAT 7A
SYSTEM	DRAFT ISO 11801 Edition 2.1 – CLASSE F _A ISO 11801 Edition 2.0 – CLASSE F EN 50173:2002

Electrical properties	Characteristics
Max.lineare résistance : 75 Ω / Km	Fire retardant acc. to IEC 60332-3-24
Mutual capacity (nom.) : 45 pF / m	Operating temperature : - 20° C / + 70° C
Characteristic impedance from 1 to 100 MHz : 100 +/- 15 Ω from 100MHz to 250 MHz : 100 +/-20 Ω	Minimum bending radius: 8 x cable diameter
Velocity of propagation : 78 %	Conform to RoHS directive

Performances

MESURES (MHZ)	ATTENUATION (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFLEXT (dB)		PSELFLEXT (dB)		Return loss (dB)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
4	3.7	3.5	78.0	105.0	75.0	97.0	78.0	105.0	75.0	102.0	23.0	25.0
10	5.8	5.6	78.0	97.0	75.0	97.0	75.3	97.0	72.3	94.0	25.0	26.0
16	7.3	7.1	78.0	93.0	75.0	97.0	71.2	93.0	68.2	90.0	25.0	26.0
20	8.2	8.0	78.0	91.0	75.0	95.0	69.3	91.0	66.3	88.0	25.0	26.0
31.25	10.3	10.1	78.0	87.0	75.0	95.0	65.4	87.0	62.4	84.0	23.6	25.0
62.5	14.6	14.3	78.0	81.0	75.0	95.0	59.4	81.0	56.4	78.0	21.5	23.0
100	18.5	18.3	75.4	77.0	72.4	95.0	55.3	77.0	52.3	74.0	20.1	21.0
300	32.7	32.5	68.2	71.0	65.2	89.0	45.8	71.0	42.8	68.0	17.3	18.0
600	47.1	46.8	63.7	67.0	60.7	86.0	39.7	67.0	38.3	64.0	17.3	18.0
1000	61.9	61.6	60.4	61.0	57.4	85.0	35.3	61.0	32.3	58.0	15.1	18.0
1200	-	63.3	-	59.0	-	80.0	-	59.0		55.0	-	15.0

Standard values from IEC 61156-5

The installation & environmental requirements can modify the values above.

Multimedia Connect reserves the right to modify the present characteristics without preliminary notification.

Ordering informations

Item No	SF12004SHFR	SF12008SHFR
Pairs number	4	2x4
AWG	22	22
Diameter	7.8	7.8x16.2
Kg/Km	67	135
Conditioning	T 500 m – T 1000 m	T 500 m – T 1000 m