

# UC<sup>FUTURE</sup> COMPACT22

Cat8.2 S/FTP 2000MHz



## 6.1. Cable

### Specification

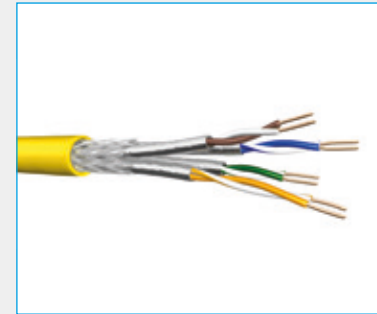
Item	Description
<b>Conductor</b>	Bare copper wire Ø 0.64 mm (AWG22)
<b>Insulation</b>	Foam-Skin Polyethylen, Ø 1.6 mm
<b>Twisting</b>	2 cores to the pair
<b>Cable lay up</b>	4 pairs
<b>Pair screen</b>	Al-laminated plastic foil around each pair
<b>Overall screen</b>	Copper braid, tinned
<b>Sheath</b>	Halogen free, fire retardant sheathing material; LSHF-FR acc. EN50289-2-27, yellow RAL 1021

### Performance

Item	Description
<b>Bending radius Installation</b>	4 x D
<b>Bending radius Installed</b>	8 x D
<b>Temperature range during operation</b>	-20°C to + 60°C
<b>Temperature range during installation</b>	0°C to + 50°C

<b>DC loop resistance</b>		≤ 130 Ω/km
<b>Resistance unbalance</b>		≤ 1%
<b>Insulation resistance</b>	(500 V)	≥ 5000 MΩxkm
<b>Capacitance</b>	at 800 Hz	Nom. 43 nF/km
<b>Capacitance unbalance</b>	(pair to ground)	≤ 1200 pF/km
<b>Mean Characteristic impedance</b>	@ 100 MHz	100 ± 5 Ω
<b>Nominal velocity of propagation</b>		Nom. 73%
<b>Delay skew</b>		20 ns/100 m
<b>Transfer impedance</b>	1 MHz 10 MHz 30 MHz 100 MHz	5 mΩ /m 5 mΩ /m 10 mΩ /m 20 mΩ /m
<b>Coupling attenuation</b>		85 dB
<b>Segregation class acc. EN 50174-2</b>		"d"

F	Attenuation	NEXT	ACR	Return loss	PS-NEXT	PS-ACR	ACR-F	PS-ACR-F
MHz	dB/100m	dB	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m
1	1.8	102	100	29	99	97	100	97
4	3.0	102	99	33	99	96	98	95
10	4.9	102	97	32	99	94	97	94
16	6.3	102	96	32	99	93	97	84
20	7.0	102	95	31	99	92	96	93
31.25	8.9	100	91	31	97	88	95	92
62.50	12.5	100	87	30	97	84	94	91
100	16.1	100	84	27	97	81	90	87
155	18.0	99	81	26	96	78	88	85
200	19.1	98	79	24	95	76	84	81
250	24.2	97	73	22	94	70	83	80
300	28.2	97	71	22	94	68	81	78
600	48.0	96	48	22	93	45	80	77
1000	55.8	89	33	20	86	30	75	72
1200	58.6	86	27	20	83	24	73	70
1500	67.5	83	15	19	80	12	66	63
1600	68.4	79	11	18	76	8	65	62
2000	78.1	75	-3	18	72	-6	59	56



### Technical data

Product code	Product name	Description
<b>60030331</b>	UCFUTURE COMPACT22 Cat.8.2 S/FTP 4P 2000MHz LSHF-FR	J-02YSCH 4x2x0.64 PIMF