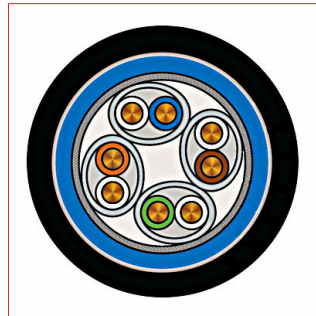
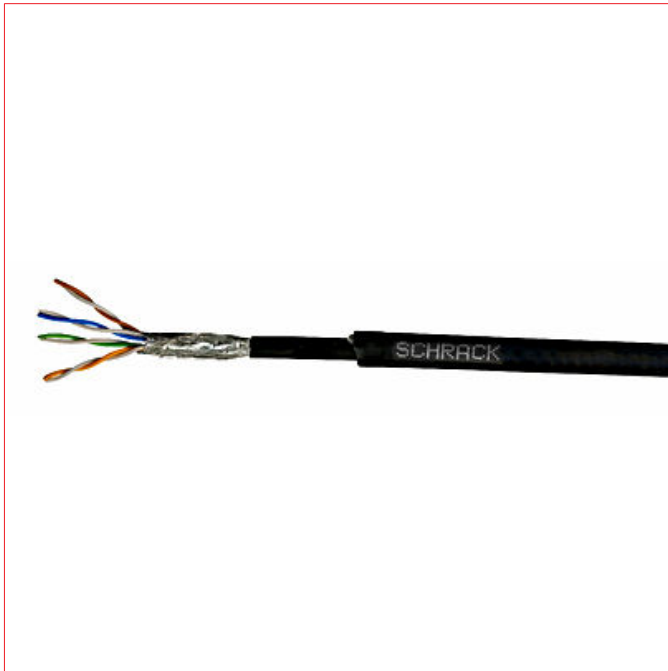


Data Sheet for Article: HCKP08-04E

S/FTP Cable Cat.7, 4x2xAWG23/1, 800Mhz, PE OUTDOOR, black



SCHRACK-Info

The FutureCom™ S/FTP 800/23 outdoor cable with diffusion barrier is designed for applications up to 800 MHz and its transmission characteristics exceed Category 7 specifications according to EN 50288-4-1 and IEC 61156-5.

High system margins for the complete link according to ISO/IEC 11801 (2002) and EN 50173-1 (2003) will be achieved by using corresponding hardware together with this high-end copper cable.

Due to very low delay skew between the pairs these FutureCom cable are especially suitable for Gigabit Ethernet and also for transmission of digital data for future applications up to 10 Gigabit Ethernet according to IEEE 802.3an.

Each pair is individually foil shielded. The strained pairs (PiMF) are also sheathed with a braid shield (S/FTP), which guaranteed outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realization of CE-compatible networks.

FEATURES

- S/FTP 800/23 outdoor cable specified up to 800 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PiMF)
- Full copper braid shield
- Includes a diffusion barrier (Aluminum band and PE sheath, UV resistant)
- Low skew between the pairs
- Halogen-free (LSZH)
- Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267

- Low smoke according to IEC 61034 and EN 50268
- Can be directly buried



Technical Data

Category	Cat.7
Cable shielding	S/FTP
Conductor	4 individual shielded pairs
Conductor material	Solid bare copper AWG23/1 (0.58mm)
Color code pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Wire insulation	Halogen-free foam/skin material
Insulation material	Polyethylene (PE)
Shielding	shielded
Pair-Foil	Laminated aluminium polyester, Aluminium facing outside (PiMF)
Overall Shield	Solid tinned copper
Cable jacket	PE (Outdoor)
Burning load (kJ/m)	2980
Outside diameter (mm)	11,7
Weight nominal (kg/km)	126
Colour	Black
Min. ambient temperature (°C)	-40
Max. ambient temperature (°C)	60
Temperature range - Operation (°C)	-40 to +60
Temperature range - Installation (°C)	+0 to +50
Bending radii cable - Static (Ø)	3
Bending radii cable - Dynamic (Ø)	6
Max. pulling tension (N)	367
Rated voltage	< 72V DC and < 50V AC
DC resistance at 20° C (Ohm/100m)	125 ± 20%
Impedance (Ohm)	100
Insulation resistance	> 5000MΩ/km
Propagation delay (ns/m)	4
Mutual capacitance (nF/km)	43
RoHS	Compliant with EU directive 2002/95/EC
Resistance difference (%)	1
Signal propagation time (ns/m)	4,2
Coupling Resistance	10mΩ/m @ 10MHz
Coupling damping typical (dB)	88
Location/territory	Outdoor, direct ground laying
Diffusion barrier	yes

Technical Data - continued

NVP (%)	79
Net length (mm)	1.000,00
Net weight (kg)	0,13
Net diameter (mm)	11,70

REFERENCE STANDARD: IEC 61156-5

Frequency	1	10	16	20	31,25	62,5	100	300	600	800	MHz
Attenuation	2,1	5,8	7,3	8,2	10,3	14,6	18,5	32,7	47,1	-	dB/100m
NEXT	78	78	78	78	78	75,5	72,4	65,2	60,7	-	dB/100m
PS NEXT	75	75	75	75	75	72,5	69,4	62,2	57,7	-	dB/100m
ACR-F	78	74	69,9	68	64,1	58,1	54	44,5	38,4	-	dB/100m
PS ACR-F	75	71	66,9	65	61,1	55,1	51	41,5	35,4	-	dB/100m
ACR-N	75,9	72,2	70,7	69,8	67,7	60,9	53,9	16,8	13,6	-	dB/100m

TYPICAL VALUES

Frequency	1	10	16	20	31,25	62,5	100	300	600	800	MHz
Attenuation	1,7	5	6,5	7,3	9,2	13,2	16,9	30,7	44	53	dB/100m
NEXT	>100	>100	>100	>100	>100	>100	99	95	91	87	dB/100m
PS NEXT	98	98	98	98	98	98	97	93	89	85	dB/100m
ACR-F	93	93	93	93	90	86	83	68	51	-	dB/100m
PS ACR-F	91	91	91	91	88	84	81	66	49	-	dB/100m
ACR-N	98,3	95	93,5	92,7	90,8	86,8	82,1	64,3	47	34	dB/100m

Typical values are for information only.

Article Table

DESCRIPTION	NVP (%)	COPPER WEIGHT (kg/km)	Order No.
S/FTP Cable Cat.7, 4x2xAWG23/1, 800Mhz, PE OUTDOOR, black	79	33	HCKP08-04E
Optional Accessories			
PERFORMANCE LINE Jack RJ45 shielded, Cat.6a 10GB 4PPoE 100W (SFB)			HSPMRJ6G1A
PERFORMANCE LINE Jack RJ45 shielded, Class Ea 10GB PoE+ (SFB)			HSPMRJ6G1T
TOOLLESS LINE Jack RJ45 shielded, Cat.6a 10GB 4PPoE (100W) (SFA)			HSEMRJ6GWA
TOOLLESS LINE Jack RJ45 shielded, Class Ea 10GB 4PPoE 100W (SFA)			HSEMRJ6GWT
Back to back cable tie black 16mm x 4m			Q7KB0416-S
Back to back cable tie blue 16mm x 4m			Q7KB0416-B
Back to back cable tie red 16mm x 4m			Q7KB0416-R
Back to back cable tie yellow 16mm x 4m			Q7KB0416-Y
Back to back cable tie green 16mm x 4m			Q7KB0416-U