

CU 7080 4P SHF1

Article No. 19439101DK

Data cable, S/FTP, Category 7, AWG23, Euroclass Dca



- 1 Inner Conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.4 Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: FRNC/LSOH SHF1

Properties

Fire load (MJ/m)	0.66 MJ/m
Reaction To Fire	Dca-s2,d2,a1
Dimensions n x p x [mm (AWG)]	4 x 2 x 0.57 (AWG23)
Outer sheath colour	grey
Diameter mm	0.57 mm
Outer sheath material	FRNC/LSZH SHF1
Outer sheath diameter [mm]	7.6 mm
CU rate [kg/km]	31.1 kg/km
Weight [kg/km]	61
Tensile load [N]	110 N
Fire load [kWh/m]	0.183 kWh/m
Packing unit	1000 m drum

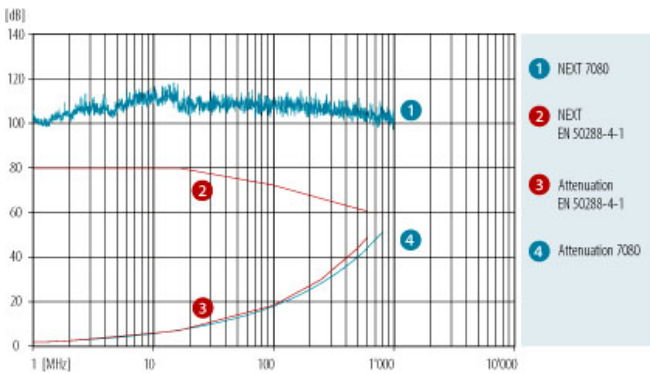
General Properties

Circuit Integrity	No
Field of application	Off-Shore
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C

Electrical Properties

Category	Cat.7
Coupling attenuation	85 dB
Delay Skew	12 ns/100 m
EMC	shielded
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, ±5Ω	100 Ω
Loop resistance at 20°C	140 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	81

operating capacity	42 pF/m
Segregation class	d
Transfer impedance 1/10/30 MHz	< 6/6/10 mΩ/m



Mechanical Properties

Solid / Flex	Solid wire
AWG	23
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	60 mm
Minimum bending radius permanently installed	30 mm
Minimum number of impacts	10
Tensile strength (2x4P)	220 N
Tensile strength (4P)	110 N

Standards

Cat./Class	Cat.7 / Class F
DNV standard	DNVGL-CP-0403
Oil resistance	IEC 60811-404, EN 60811-2-1
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: D _{ca}
Zero halogen no corrosive gases	AREI-RGIE Art.104-SA, EN 60754-1/-2, IEC 60754-1/-2, VDE 0482-754-1/-2
Flame Propagation	AREI-RGIE Art.104-F1, EN 60332-1-2, IEC 60332-1-2, VDE 0482-332-1-2
Flame Spread	AREI-RGIE Art.104-F2, EN 60332-3-24, IEC 60332-3-24
Smoke Density	AREI-RGIE Art.104-SD, EN 61034-1/-2, IEC 61034-1/-2, VDE 0482-1034-1/-2

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