



DATABUS screend RADOX® MILCAT7 4X(2X24AWG) REMS FH

Product description:

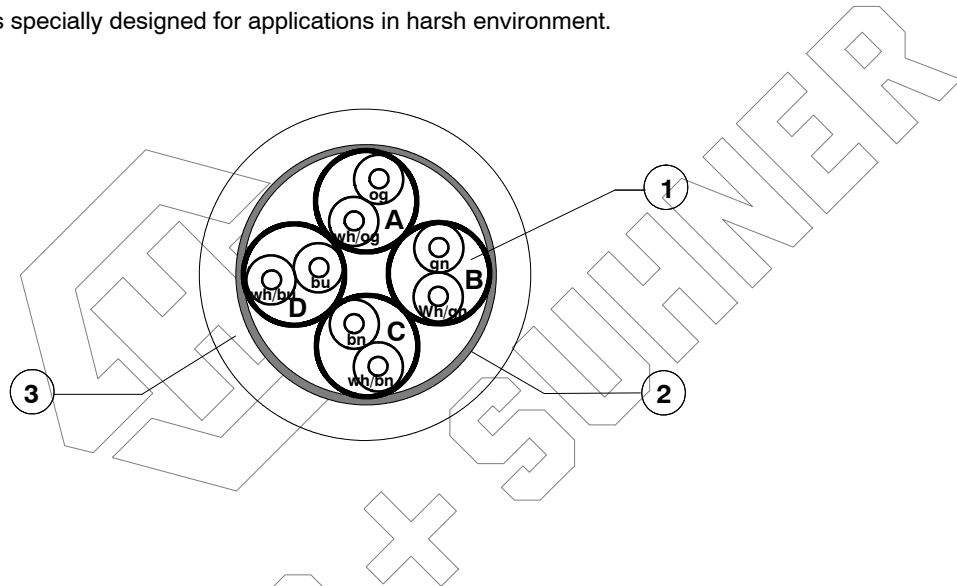
RADOX MILCAT7 Multicore cable with overall screen
Impedance: 100 Ohm

General features:

Halogen free electron- beam cross linked cable with improved behaviour in case of fire, easy to strip, soldering iron is resistant and flexible. Meet the electrical requirements of EN 50288- 4- 2 and IEC 61156- 6 Cat. 7. Stripped wires helps to better difference by assembling.
The cable is especially suitable for Gigabit Ethernet and for transmission of digital data for applications up to 10 Gigabit according to IEEE 802.3.

Application:

This ethernet databus is specially designed for applications in harsh environment.



- | | | | |
|----|---|---|---------------------------------|
| 1. | 4 pairs, 2X24AWG twisted
Cores:
2 cores twisted:
Pair screen | Conductor : flexible tin plated copper
Insulation : RADOX FOAM
Pair A: white/orange- orange
Pair B: white/green- green
Pair C: white/brown- brown
Pair D: white/blue- blue
Aluminium tape | AWG 24 (7x32AWG)
D : 1.35 mm |
| 2. | EMC - Screen | Tin plated copper braid | D : 6.0 mm |
| 3. | Sheath | RADOX REMS FH, colour : see table | D : 8.1 ± 0.5 mm |

Marking:

HUBER+SUHNER RADOX MILCAT7 100 OHM 4X(2X24AWG) REMS FH 85028693- [batch- No.] [date of manufacture]

Copyright 2016 HUBER+SUHNER AG. This document may not be amended and its content is confidential. It may not be passed on to third party which are not bound by confidentiality.

The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

HUBER+SUHNER AG Low Frequency Division

CH- 8330 Pfäffikon



+41 (0)44 952 22 11



+41 (0)44 952 26 40

www.hubersuhner.com



DATABUS screend RADOX® MILCAT7 4X(2X24AWG) REMS FH

Technical data:

Frequency [Mhz]	Attenuation max. [dB/100m]	NEXT min. [dB]	PS NEXT min. [dB]	ACR- F min. [dB]	PS ACR- F min. [dB]	RL min. [dB]
1	2.9	80	77	80	77	-
4	5.5	80	77	80	77	23.1
10	8.5	80	77	74	71	25
16	10.8	80	77	69.9	66.9	25
31.25	15.2	80	77	64.1	61.1	23.6
62.5	21.7	75.1	72.5	58.1	55.1	21.5
100	27.8	72.4	69.4	54	51	20.1
300	50	65.3	62.3	44.5	41.5	17.3
600	73.3	60.8	57.8	38.4	35.4	17.3

Databus:

Characteristic Impedance	f=100MHz	100 ± 5	Ω
Capacitance	core / core	≤ 50	pF / m
	core / screen	≤ 80	pF / m
Velocity of propagation		~70	%
Conductor resistance at 20 °C		≤ 95	Ω / km
Voltage rating		125	VAC
Test voltage		1000	VAC
Max. rated conductor temperature normal oration		+ 70	°C
Temperature index of sheath TI/20 kh		> +125	°C
Min. installation and handling temperature		- 40	°C
Min. Temperature fix		- 50	°C
Min. bending radius	fixed	4 x cable dia	
Cable weight per 100 m	approx.	8.8	kg
Fire load	approx.	705	kJ/m

The cables is in conformity with:

Vertical flame spread	50 < L ≤ 540 mm	EN 60332- 1- 2
Vertical flame spread, bunched, 6 < D < 12 mm	L ≤ 2.5 m	EN 60332- 3- 25
Smoke density	T ≥ 60 %	EN 61034- 2
Corrosivity of combustion gases	pH ≥ 4.3, C ≤ 10 μS/mm	EN 50267- 2- 2
Amount of halogen acid gas	HCl + HBr ≤ 0.5 %	EN 50267- 2- 1
Content of fluorine	HF ≤ 0.1 %	EN 60684- 2, 45.2
Toxicity	ITC ≤ 3	EN 50305, 9.2

Table:

Cable Type	Conductor Construction	Core diameter Ø mm	Cable diameter Ø mm	Cable sheath colour	Weight nom. kg / 100m	H+S Nr.
AWG	n x AWGØ					
2X24	7x32	1.35	8.1 ± 0.5	black	8.8	85030430
2X24	7x32	1.35	8.1 ± 0.5	blue	8.8	85028693