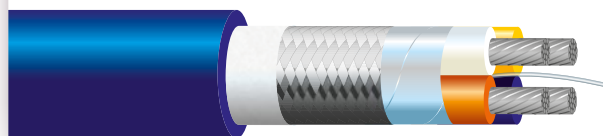


DATARAIL®

100BE85EM101

4x0.5 mm²

Sheathed cable



Characteristics

Thermal

Continuous operating temperature:
-25 °C to +85 °C.

Electrical

Operating voltage: 300 V.
Test voltage: 2 kV A.C.

Nominal impedance from 1 to 100 MHz: 100 Ω.
Mutual capacitance: ≤ 55 pF/m.
Capacitance unbalance pair to ground: ≤ 1600 pF/km.
Nominal velocity ratio: 70 %.
Transfer impedance from 100 KHz to 30 MHz: ≤ 10 mΩ/m.
from 30 to 100 MHz: ≤ 50 mΩ/m.
Insulation resistance at 20 °C: ≥ 150 MΩ.km.
Linear resistance at 20 °C: ≤ 40.1 Ω/km.

Mechanical

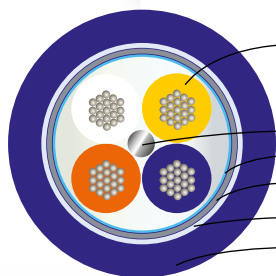
Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius: 8xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2).
Fire smoke protection: EN45545-2.



- 1 • Twisted quad (4x0.5 mm²)
> Conductor : Tin-plated copper core (19/0.18 mm)
Class 5 - EN 60228
> Insulation : Polyolefin
- 2 • Optional filler
- 3 • PET and ALU/PET tapes
- 4 • General electrical shielding (tin-plated copper braid)
- 5 • Fire-retardant tape
- 6 • Fire resistant elastomer EM101 according to EN 50264-1

Marking

DTREN 150002 - 300V - 4x0.5mm² C S - QUADRAX 100 OHMS - OMERIN 369 - batch number - week/year

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Max. Insertion Loss (dB/100 m)	3.2	6	9.5	12.1	13.6	17.1	24.8	32
Min. PS NEXT (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
Min. Return Loss (dB)	-	23	25	25	25	23.3	20.7	19
Min. EL FEXT (dB)	61	49	41	36.9	35	31.1	25.1	21

Core number	Nominal cross-section (mm ²)	Nominal conductor diameter (mm)	Nominal cable outer diameter (mm)	Approx. linear weight (kg/km)
4	0.5	1.95	8.5	40.1

For this product, please contact :

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