

Siechem Quad 4 X 0.5Sq.mm (20 AWG) Ethernet (Communication) Cable

Application

- ✓ A multi-pair high performance cable that consist of twisted pair conductors used mainly for data transmission
- ✓ Supports a frequency range of upto 100 MHZ
- ✓ Shipboard, Satellite, Weapons system, Avionic system
- ✓ Ensures increased head room for future applications with low bit - error rates and high signal transmission
- ✓ Foil shield reduces electromagnetic interference (EMI)

Product Construction

- ✓ Conductor : Annealed Tinned Copper Conductor
- ✓ Insulation : Polyolefin
- ✓ Colour Identification : Quad formation white yellow, blue & Orange
- ✓ Shield : Al. Mylar Tape (Al Side Outside)
- ✓ Screen : ATC
- ✓ Flame Barrier Phlogopite Tape
- ✓ Outer Sheath : EBXL EM 101 - Blue

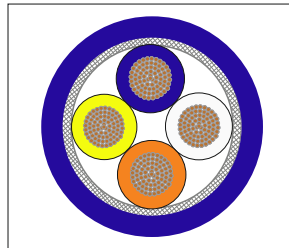
Technical Data

- ✓ Temperature Range : -25°C to +85°C
- ✓ Voltage : 300V
- ✓ Characteristic Impedance @(1 to 100MHz) : 100 ± 5Ω
- ✓ Velocity of propagation : 70% Nom
- ✓ High voltage Test : 2 kv
- ✓ Capacitance Test
 - i) Mutual Capacity : ≤ 55 pF/m
 - ii) Unbalance Capacity : ≤ 1.6 pF/m
- ✓ Transfer Impedance :
 - i) 100 kHz to 30 MHz : 10 mΩ/m
 - ii) 100 kHz to 100 MHz : 50 mΩ/m
- ✓ Bending Radius
 - i) Fixed installation : 5 x Min Cable OD
 - ii) Free installation : 10 x Min Cable OD
- ✓ Insulation Resistance : ≥ 150 MΩ.Km at 20°C
- ✓ Flame propagation :
 - i) Single cable - Complies as per EN 60332-1
 - ii) Bunched cable - Complies as per EN 60332-3-25
- ✓ Smoke density : Complies as per EN 61034-2
- ✓ Toxicity / Corrosivity : Complies as per EN 60754 - 1&2
- ✓ Standard : DTREN 150002

Features

- ✓ Oil Resistance
- ✓ UV Resistance
- ✓ RoHS Complies
- ✓ Enhanced signal to noise ratio
- ✓ Excellent attenuation and cross talks characteristic

2D View



Approvals	Accreditations	Certifications

Part Number	No. of Cores x Cross Section	No. of Strands	Strand dia (Nom)	Conductor Diameter (Nom)	Core Dia (Nom)	Thickness of Tape (Nom)	Screen Wire Dia (Min)	Outer Sheath Thickness (Nom)	Over all Diameter (Nom)	Cable Weight (Approx.)	Max. DC Conductor Resistance at 20°C
	Sq. mm	Nos.	mm	mm	mm	mm	mm	mm	mm	Kg/Km	Ω/km
D9020604	4 x 0.5	19	0.18	0.90	1.95 ± 0.10	0.035	0.10	1.3	8.5 ± 0.3	100	40.1

Freq MHz	1	4	10	16	20	31.25	62.50	100
Max. Attenuation (dB/100m)	≤ 2.1	≤ 4.3	≤ 6.6	≤ 8.2	≤ 9.2	≤ 11.8	≤ 17.1	≤ 22.0
Near - end Cross-talk (NEXT) Pair - to pair in the quad Cable (dB)	≥ 62.3	≥ 53.3	≥ 47.3	≥ 44.2	≥ 42.8	≥ 39.9	≥ 35.4	≥ 32.3

** We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.



Siechem Quad 4 X 0.25 Sq.MM (24 AWG) Ethernet (Communication) Cable

Application

- ✓ A multi pair high performance cable that consist of twisted pair conductors used mainly for data transmission
- ✓ Supports a frequency range of upto 100 MHZ
- ✓ Shipboard, Satellite, Weapons system, Avionic system
- ✓ Ensures increased head room for future applications with low bit - error rates and high signal transmission
- ✓ Foil shield reduces electromagnetic interference (EMI)

Product Construction

- ✓ Conductor : Annealed Tinned Copper
Copper Conductor
- ✓ Insulation : Polyolefin
- ✓ Colour Identification : Quad formation white yellow, blue & orange
- ✓ Shield : Al. Mylar Tape (Al side Outside)
- ✓ Screen : ATC
- ✓ Flame Barrier Phlogopite Tape
- ✓ Outer Sheath : EBXL - EM 101 - Blue

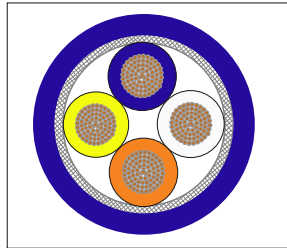
Technical Data

- ✓ Temperature Range : -25°C to +85°C
- ✓ Voltage : 300V
- ✓ Min Bending Radius
 - i) Fixed installation : 5 x Cable OD
 - ii) Free installation : 10 x Cable OD
- ✓ Transfer Impedance at
 - i)100 KHZ to 100 MHz : 50 mΩ/m
- ✓ Unbalance Capacity : 1.6 pF/m
- ✓ Characteristic Impedance at (1 to 100MHz) : 100 ± 5Ω
- ✓ Mutual Capacity, Max : 55 pF/m
- ✓ Propagation Speed : ≥70 %
- ✓ Flame propagation :
 - i) Single cable - Complies as per EN 60332-1
 - ii) Bunched cable - Complies as per EN 60332-3-25
- ✓ Smoke density : Complies as per EN 61034-2
- ✓ Toxicity / Corrosivity : Complies as per EN 60754 - 1&2
- ✓ Standard : DTREN 150007

Features

- ✓ Oil Resistance
- ✓ UV Resistance
- ✓ RoHS Complies
- ✓ Enhanced signal to noise ratio
- ✓ Excellent attenuation and cross talks characteristic

2D View



Approvals Accreditations Certifications



Part Number	No. of Cores x Cross Section	No. of Strands	Strand dia (Nom)	Conductor Diameter (Nom)	Core Dia (Nom)	Thickness of Tape (Nom)	Screen Wire Dia (Min)	Dia Over Braid (Nom)	Outer Sheath Thickness (Nom)	Over all Diameter (Nom)	Cable Weight (Approx.)	Max. DC Conductor Resistance at 20°C
	Sq. mm	Nos.	mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km	Ω/km
D9030304	4 x 0.25	19	0.13	0.65	1.35 ± 0.10	0.035	0.10	4.0	1.3	6.7 ± 0.5	60	76.1

Freq MHz	1	4	10	16	20	31.25	62.50	100
Max. Attenuation (dB/100m)	≤3.2	≤ 6.0	≤ 9.5	≤ 12.1	≤ 13.6	≤ 17.1	≤ 24.8	≤ 32.0
Near - end Cross-talk (NEXT) Pair - to pair in the quad Cable (dB)	≥ 62.3	≥ 53.3	≥ 47.3	≥ 44.2	≥ 42.8	≥ 39.9	≥ 35.4	≥ 32.3

** We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.

