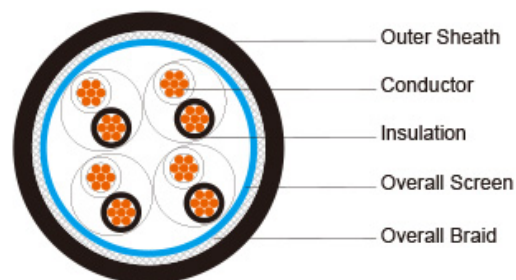


Flame Retardant RS485 Databus Cables



Application:

Cat6 Cable is a cable standard for Gigabit Ethernet and other network protocol, suitable for 10BaseT, 100BaseTx & 1000BaseT (Gigabit Ethernet) application. In addition, these cables are with copper wire braid armoured & flame retardant mud resistant outer sheath, providing additional mechanically protection still maintaining the flexibility of the cable.

Standard:

Basic design to EIA/TIA 485

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1; CEI 20-35/1-2; EN 50265-2-1; DIN VDE 0482-265-2-1
Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; CEI 20-22/3-4; EN 50266-2- 4; DIN VDE 0482-266-2-4
Halogen Free	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2
minimum Smoke Emission	IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2; BS 7622-1&2
No Toxic gases	NES 02-713

VOLTAGE RATING

60V

CABLE CONSTRUCTION

Multipair RS 485 Overall Screened Databus Cable

Conductors: tinned copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Foam PE or foam skin PE.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two pair cable had four cores laid in quad formation.

Cabling: Pairs are cabled together in concentric layers.

Overall screen: Aluminum/polyester tape with tinned copper drain wire.

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZHcompound type SW2-SW4 as per BS 7655-2.6 can be offered.)

Multipair RS 485 Overall Double Screened Databus Cable

Conductors: tinned copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Foam PE or foam skin PE.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two pair cable had four cores laid in quad formation.

Cabling: Pairs are cabled together in concentric layers.

Overall screen: Aluminium/polyester tape+copper wire braid.

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.)

Multipair RS 485 Individual & Overall screened Databus Cable

Conductors: tinned copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Foam PE or foam skin PE.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two pair cable had four cores laid in quad formation. Cabling: Pairs are cabled together in concentric layers. Individual Screen:

Individual aluminium/polyester tape. Overall Screen: Copper wire braid.

outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.)

Multipair RS 485 Overall Screened Databus Cable

Conductors: tinned copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Foam PE or foam skin PE.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two pair cable had four cores laid in quad formation.

Cabling: Pairs are cabled together in concentric layers.

Overall Screen: Copper wire braid.

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.)

Physical AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -20°C - +90°C

Temperature range during installation (mobile state): -5°C - +60°C

Minimum bending radius: 8 x Overall Diameter

Electrical Properties

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

CONSTRUCTION PARAMETERS

Multipair RS 485 Overall Screened Databus Cable

RE-02Y(St)H / RE-02YS(St)H

No.of pair x	Nominal Cross Sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
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	mm ²	No/mm	mm	mm	mm	kg/km
1	0.22	7/0.2	0.55	0.40	4.0	21
2	0.22	7/0.2	0.55	0.40	7.1	42
4	0.22	7/0.2	0.55	0.40	8.3	68
1	0.50	16/0.2	0.55	0.40	4.6	32
2	0.50	16/0.2	0.55	0.40	8.2	68
4	0.50	16/0.2	0.55	0.40	9.8	115
1	0.75	24/0.2	0.55	0.40	5.1	40
2	0.75	24/0.2	0.55	0.40	9.1	84
4	0.75	24/0.2	0.55	0.40	10.9	144
1	1.00	30/0.2	0.55	0.40	5.2	49
2	1.00	30/0.2	0.55	0.40	9.5	105
4	1.00	30/0.2	0.55	0.40	11.2	182

Multipair RS 485 Overall Double Screened Databus Cable

RE-02Y(St)CH / RE-02YS(St)CH

No.of pair x	Nominal Cross Sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
1	0.22	7/0.2	0.55	0.40	4.5	34
2	0.22	7/0.2	0.55	0.40	7.5	67
4	0.22	7/0.2	0.55	0.40	8.8	97
1	0.50	16/0.2	0.55	0.40	5.1	48
2	0.50	16/0.2	0.55	0.40	8.7	97
4	0.50	16/0.2	0.55	0.40	10.3	150
1	0.75	24/0.2	0.55	0.40	5.6	57
2	0.75	24/0.2	0.55	0.40	9.7	116
4	0.75	24/0.2	0.55	0.40	11.4	182
1	1.00	30/0.2	0.55	0.40	5.7	67
2	1.00	30/0.2	0.55	0.40	10.0	138
4	1.00	30/0.2	0.55	0.40	11.8	222

Multipair RS 485 Individual & Overall screened Databus Cable

RE-02Y(St)H pimf / RE-02YS(St)H pimf

No.of pair x	Nominal Cross Sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
1	0.22	7/0.2	0.55	0.40	4.4	35

2	0.22	7/0.2	0.55	0.40	7.5	69
4	0.22	7/0.2	0.55	0.40	8.8	106
1	0.50	16/0.2	0.55	0.40	5.0	49
2	0.50	16/0.2	0.55	0.40	8.7	100
4	0.50	16/0.2	0.55	0.40	10.3	159
1	0.75	24/0.2	0.55	0.40	5.5	58
2	0.75	24/0.2	0.55	0.40	9.7	119
4	0.75	24/0.2	0.55	0.40	11.2	174
1	1.00	30/0.2	0.55	0.40	5.6	68
2	1.00	30/0.2	0.55	0.40	10.0	142
4	1.00	30/0.2	0.55	0.40	11.8	234

Multipair RS 485 Overall Screened Databus Cable
RE-02YCH / RE-02YSCH

No. of pair x	Nominal Cross Sectional Area	No./Nominal Diameter Strands of	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
1	0.22	7/0.2	0.55	0.40	4.3	31
2	0.22	7/0.2	0.55	0.40	7.3	61
4	0.22	7/0.2	0.55	0.40	8.5	91
1	0.50	16/0.2	0.55	0.40	4.9	44
2	0.50	16/0.2	0.55	0.40	8.5	91
4	0.50	16/0.2	0.55	0.40	10.0	142
1	0.75	24/0.2	0.55	0.40	5.4	53
2	0.75	24/0.2	0.55	0.40	9.5	109
4	0.75	24/0.2	0.55	0.40	11.2	174
1	1.00	30/0.2	0.55	0.40	5.5	63
2	1.00	30/0.2	0.55	0.40	9.8	131
4	1.00	30/0.2	0.55	0.40	11.5	213