Caledonian

FIRETOX LSZH Sheathed Fire Retardant RS485 Databus Cables

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Company Profile

Caledonian. established in 1978.offers one of the most complete lines of fiber and copper cabling system solutions with over hundreds of different cabling system products. . Our superior products provide leading edge within every cable series and for every application.

Among the national and international standards with which our cables could comply are: BS - British Standard; LPCB Fire Performance Standard. ISO Standard etc. Caledonian Cables offers a comprehensive stock of cables and cabling products through its nationwide network of resellers and distributors. Caledonian Cables has continually expanded its global presence in Europe and Asia.

Caledonian & Addison. produces a wide range of cables for communication. power and electronics in its primary plants in UK. Italy and Spain. To stay in front. we continually keep expanding our manufacturing capabilities in more low cost region such as Romania. Taiwan. Malaysia etc. This low-cost manufacturing facilities enable us provide a flexible. scalable global system that delivers superior operational performance and optimal results for our customers.

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing. logistic services. and vertically integrated with our ecommerce technologies. to optimize customer operations by lowering costs and reducing time to market.


ISO 9001
REGISTERED FIRM

Registration Certificate

This document certifies that the administration systems of

Caledonian Cables Limited/Addison Technology Limited

Marchants Industrial Centre, Mill Lane, Laughton, Lewes, Sussex, BN8 6AJ, United Kingdom

have been assessed and approved by QAS International to the following management systems, standards and guidelines:

ISO 9001 : 2008

With the permitted exclusion of clauses 7.3 Design and Development

The approved administration systems apply to the following:

The manufacture and supply of electrical cables and ancillary power equipment to customers internationally.

Original Approval 8th September 1997
Current Certificate 7th February 2011
Certificate Expiry 7th February 2012
Certificate Number A6211

On behalf of QAS International

Caledonian & Addison has been respected for its high standards of quality. excellent service level. competitive pricing and a unique and innovative spirit. With our latest technologies. we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning. we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized. country and industry-specific solutions. Caledonian & Addison has established an extensive network of design. manufacturing. and logistics facilities in the world's major markets to serve the growing outsourcing needs of both multinational and regional customers.

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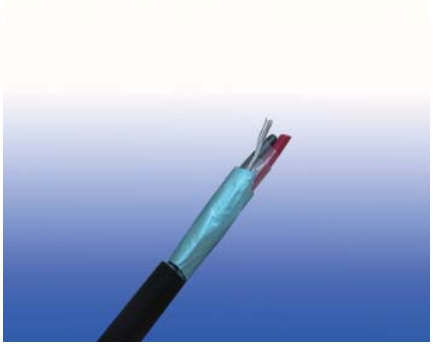
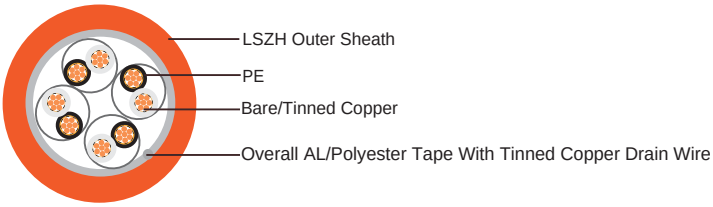
LSZH Sheathed Fire Retardant RS485 Screened & GSWA Databus Cables

Foam PE Insulated, LSZH Sheathed, Overall Aluminum/Polyester Tape Screened Multipair RS 485 Databus Cables

RE-02Y(St)H





APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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 LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)H 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.0	21
RE-02Y(St)H 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.2	42
RE-02Y(St)H 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.7	68
RE-02Y(St)H 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.6	32
RE-02Y(St)H 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.3	68
RE-02Y(St)H 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.2	115
RE-02Y(St)H 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.1	40
RE-02Y(St)H 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.2	84
RE-02Y(St)H 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.3	144
RE-02Y(St)H 1×2×1	1	1.00	30/0.2	0.7	1.1	7.2	49

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)H 2×2×1	2	1.00	30/0.2	0.7	1.1	11.6	105
RE-02Y(St)H 4×2×1	4	1.00	30/0.2	0.7	1.1	13.6	182

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

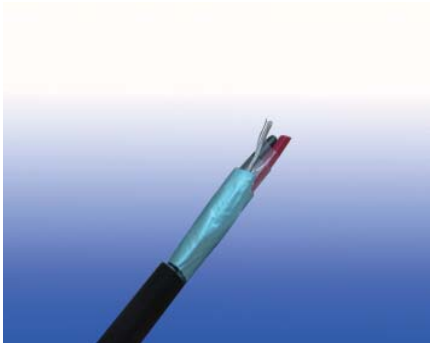

Low Toxicity
NES 02-713/NF C 20-454

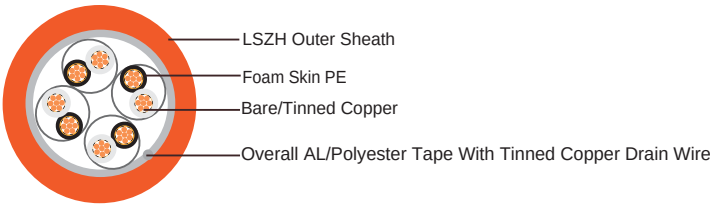

Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminum/Polyester Tape Screened Multipair RS 485 Databus Cables

RE-02YS(St)H





APPLICATION

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STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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 LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YS(St)H 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.0	21
RE-02YS(St)H 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.2	42
RE-02YS(St)H 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.7	68
RE-02YS(St)H 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.6	32
RE-02YS(St)H 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.3	68
RE-02YS(St)H 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.2	115
RE-02YS(St)H 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.1	40
RE-02YS(St)H 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.2	84
RE-02YS(St)H 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.3	144
RE-02YS(St)H 1×2×1	1	1.00	30/0.2	0.7	1.1	7.2	49

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RE-02YS(St)H 4×2×1	4	1.00	30/0.2	0.7	1.1	13.6	182

Rated Voltage

Standard

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

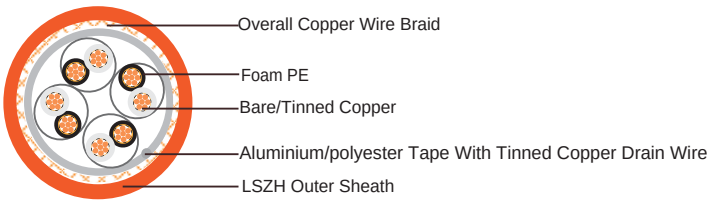
Low Toxicity
NES 02-713/NF C 20-454

Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam PE Insulated, LSZH Sheathed, Overall Aluminium/Polyester Tape & Copper Wire Braid Double Screened Multipair RS 485 Databus Cables

RE-02Y(St)CH



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STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.)**.** UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)CH 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.5	34
RE-02Y(St)CH 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.6	67
RE-02Y(St)CH 4×2×0.22	4	0.22	7/0.2	0.7	1.1	11.2	97
RE-02Y(St)CH 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.1	48
RE-02Y(St)CH 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.8	97
RE-02Y(St)CH 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.7	150
RE-02Y(St)CH 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.6	57
RE-02Y(St)CH 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.8	116
RE-02Y(St)CH 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.8	182
RE-02Y(St)CH 1×2×1	1	1.00	30/0.2	0.7	1.1	7.7	67

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)CH 2×2×1	2	1.00	30/0.2	0.7	1.1	12.1	138
RE-02Y(St)CH 4×2×1	4	1.00	30/0.2	0.7	1.1	14.2	222

Rated Voltage

Standard

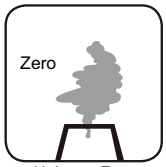

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

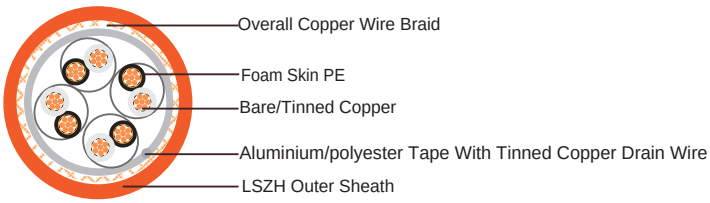

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminium/polyester Tape & Copper Wire Braid Double Screened Multipair RS 485 Databus Cables

RE-02YS(St)CH



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STANDARDS

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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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

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CABLE CONSTRUCTION

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Insulation: Foam skin PE.
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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.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
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RE-02YS(St)CH 4×2×0.22	4	0.22	7/0.2	0.7	1.1	11.2	97
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RE-02YS(St)CH 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.8	97
RE-02YS(St)CH 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.7	150
RE-02YS(St)CH 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.6	57
RE-02YS(St)CH 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.8	116
RE-02YS(St)CH 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.8	182
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Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YS(St)CH 2×2×1	2	1.00	30/0.2	0.7	1.1	12.1	138
RE-02SY(St)CH 4×2×1	4	1.00	30/0.2	0.7	1.1	14.2	222

Rated Voltage

Standard

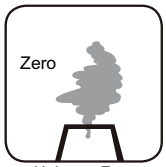

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

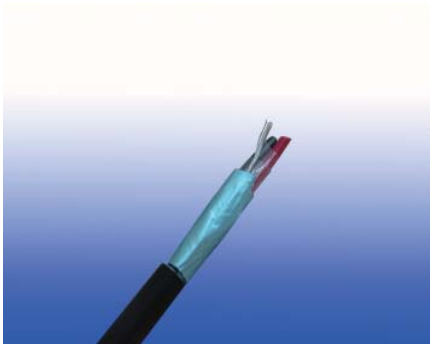

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

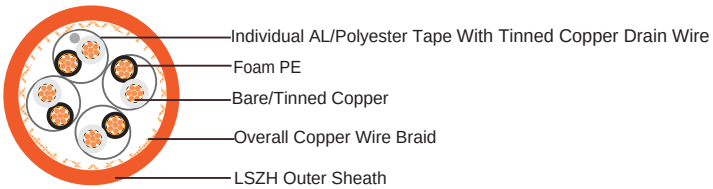


Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Screened Multipair RS 485 Databus Cables

RE-02Y(St)CH PiMF





APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)CH PiMF 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.4	35
RE-02Y(St)CH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.6	69
RE-02Y(St)CH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	1.1	11.2	106
RE-02Y(St)CH PiMF 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.0	49
RE-02Y(St)CH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.8	100
RE-02Y(St)CH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.7	159
RE-02Y(St)CH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.5	58
RE-02Y(St)CH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.8	119
RE-02Y(St)CH PiMF 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.6	174

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02Y(St)CH PiMF 1×2×1	1	1.00	30/0.2	0.7	1.1	7.6	68
RE-02Y(St)CH PiMF 2×2×1	2	1.00	30/0.2	0.7	1.1	12.1	142
RE-02Y(St)CH PiMF 4×2×1	4	1.00	30/0.2	0.7	1.1	14.2	234

Rated Voltage

Standard

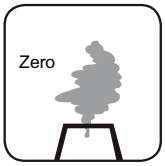

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

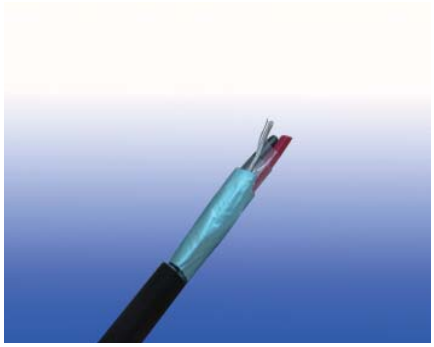

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

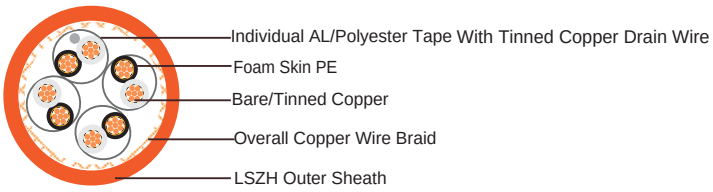


Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Screened Multipair RS 485 Databus Cables

RE-02YS(St)CH PiMF





APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard..

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YS(St)CH PiMF 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.4	35
RE-02YS(St)CH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.6	69
RE-02YS(St)CH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	1.1	11.2	106
RE-02YS(St)CH PiMF 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.0	49
RE-02YS(St)CH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.8	100
RE-02YS(St)CH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.7	159
RE-02YS(St)CH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.5	58
RE-02YS(St)CH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.8	119

Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YS(St)CH PiMF 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.6	174
RE-02YS(St)CH PiMF 1×2×1	1	1.00	30/0.2	0.7	1.1	7.6	68
RE-02YS(St)CH PiMF 2×2×1	2	1.00	30/0.2	0.7	1.1	12.1	142
RE-02YS(St)CH PiMF 4×2×1	4	1.00	30/0.2	0.7	1.1	14.2	234

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454

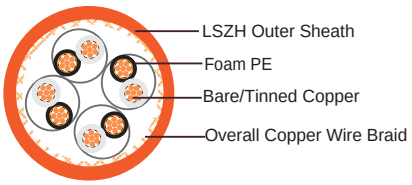

Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened Multipair RS 485 Databus Cables

RE-02YCH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YCH 1×2×0.22	1	0.22	7/0.2	0.7	1.1	8.4	31
RE-02YCH 2×2×0.22	2	0.22	7/0.2	0.7	1.1	11.7	61
RE-02YCH 4×2×0.22	4	0.22	7/0.2	0.7	1.1	13.6	91
RE-02YCH 1×2×0.5	1	0.50	16/0.2	0.7	1.1	9.0	44
RE-02YCH 2×2×0.5	2	0.50	16/0.2	0.7	1.1	12.9	91
RE-02YCH 4×2×0.5	4	0.50	16/0.2	0.7	1.1	15.1	142
RE-02YCH 1×2×0.75	1	0.75	24/0.2	0.7	1.1	9.5	53
RE-02YCH 2×2×0.75	2	0.75	24/0.2	0.7	1.1	13.9	109
RE-02YCH 4×2×0.75	4	0.75	24/0.2	0.7	1.1	16.0	174
RE-02YCH 1×2×1	1	1.00	30/0.2	0.7	1.1	9.6	63

Cable Code	No.of pair	Nominal Cross Sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YCH 2×2×1	2	1.00	30/0.2	0.7	1.1	14.2	131
RE-02YCH 4×2×1	4	1.00	30/0.2	0.7	1.1	16.6	213

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened Multipair RS 485 Databus Cables

RE-02YSCH

APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YSCH 1×2×0.22	1	0.22	7/0.2	0.7	1.1	8.4	31
RE-02YSCH 2×2×0.22	2	0.22	7/0.2	0.7	1.1	11.7	61
RE-02YSCH 4×2×0.22	4	0.22	7/0.2	0.7	1.1	13.6	91
RE-02YSCH 1×2×0.5	1	0.50	16/0.2	0.7	1.1	9.0	44
RE-02YSCH 2×2×0.5	2	0.50	16/0.2	0.7	1.1	12.9	91
RE-02YSCH 4×2×0.5	4	0.50	16/0.2	0.7	1.1	15.1	142
RE-02YSCH 1×2×0.75	1	0.75	24/0.2	0.7	1.1	9.5	53
RE-02YSCH 2×2×0.75	2	0.75	24/0.2	0.7	1.1	13.9	109
RE-02YSCH 4×2×0.75	4	0.75	24/0.2	0.7	1.1	16.0	174

Cable Code	No.of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	kg/km
RE-02YSCH 1×2×1	1	1.00	30/0.2	0.7	1.1	9.6	63
RE-02YSCH 2×2×1	2	1.00	30/0.2	0.7	1.1	14.2	131
RE-02YSCH 4×2×1	4	1.00	30/0.2	0.7	1.1	16.6	213

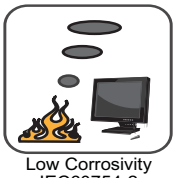
Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454

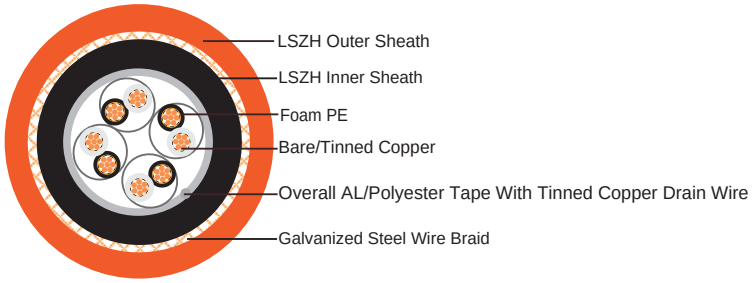

Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Overall Aluminum/polyester Tape Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02Y(St)HSWBH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)HSWBH 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	56
RE-02Y(St)HSWBH 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.5	102
RE-02Y(St)HSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.6	142
RE-02Y(St)HSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.3	70
RE-02Y(St)HSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.6	131
RE-02Y(St)HSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13	188
RE-02Y(St)HSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	81
RE-02Y(St)HSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.4	154

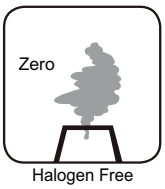
LSZH Flire Retardant RS485 Screened & GSWB Databus Cable

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)HSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14	227
RE-02Y(St)HSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	87
RE-02Y(St)HSWBH 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.7	166
RE-02Y(St)HSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.3	249

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Halogen Free
IEC60754-1
EN50267-2-1

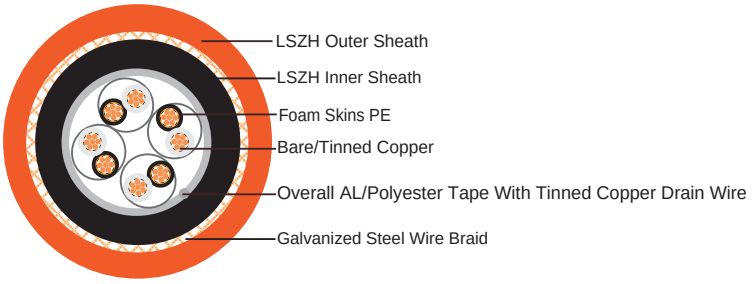

Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminum/polyester Tape Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02YS(St)HSWBH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)HSWBH 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	56
RE-02YS(St)HSWBH 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.5	102
RE-02YS(St)HSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.6	142
RE-02YS(St)HSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.3	70
RE-02YS(St)HSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.6	131
RE-02YS(St)HSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13	188
RE-02YS(St)HSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	81
RE-02YS(St)HSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.4	154

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)HSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14	227
RE-02YS(St)HSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	87
RE-02YS(St)HSWBH 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.7	166
RE-02YS(St)HSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.3	249

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

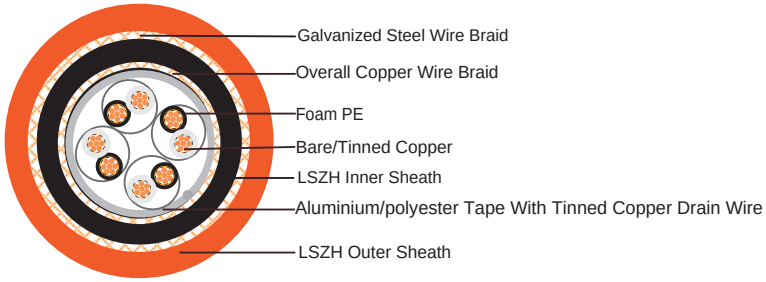

Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam PE Insulated, LSZH Sheathed, Overall Aluminium/polyester Tape & Copper Wire Braid Double Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02Y(St)CHSWBH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.)**.** UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHSWBH 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	8.1	71
RE-02Y(St)CHSWBH 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	127
RE-02Y(St)CHSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12.1	170
RE-02Y(St)CHSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.7	87
RE-02Y(St)CHSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	12	159
RE-02Y(St)CHSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.5	221
RE-02Y(St)CHSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9.2	100

LSZH Flire Retardant RS485 Screened & GSWB Databus Cable

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	185
RE-02Y(St)CHSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	264
RE-02Y(St)CHSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.3	106
RE-02Y(St)CHSWBH 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.2	198
RE-02Y(St)CHSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.8	286

Rated Voltage

Standard

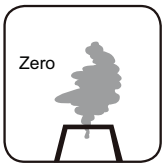

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

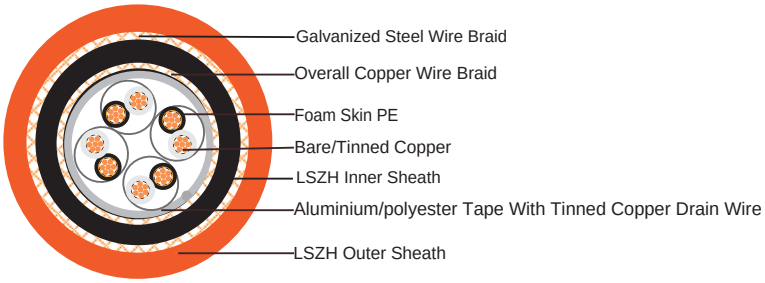

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminium/polyester Tape & Copper Wire Braid Double Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02YS(St)CSWBH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.)**.** UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHSWBH 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	8.1	71
RE-02YS(St)CHSWBH 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	127
RE-02YS(St)CHSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12.1	170
RE-02YS(St)CHSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.7	87
RE-02YS(St)CHSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	12	159
RE-02YS(St)CHSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.5	221
RE-02YS(St)CHSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9.2	100

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	185
RE-02YS(St)CHSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	264
RE-02YS(St)CHSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.3	106
RE-02YS(St)CHSWBH 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.2	198
RE-02SY(St)CHSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.8	286

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454

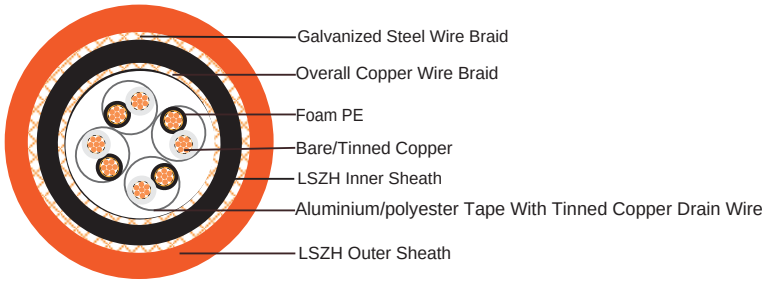

Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Double Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02Y(St)CHSWBH PiMF



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHSWBH PiMF1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	54
RE-02Y(St)CHSWBH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.6	100
RE-02Y(St)CHSWBH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.7	152
RE-02Y(St)CHSWBH PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.2	72
RE-02Y(St)CHSWBH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.7	136
RE-02Y(St)CHSWBH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.1	200
RE-02Y(St)CHSWBH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	84
RE-02Y(St)CHSWBH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.5	159
RE-02Y(St)CHSWBH PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	247
RE-02Y(St)CHSWBH PiMF 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	90

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHSWBH PiMF 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.8	171
RE-02Y(St)CHSWBH PiMF 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.4	263

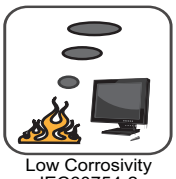
Rated Voltage

Standard

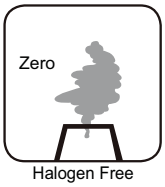

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

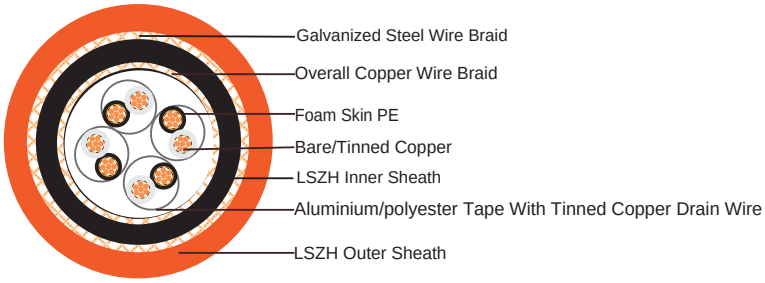

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Double Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02YS(St)CHSWBH PiMF



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard..

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHSWBH PiMF 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	54
RE-02YS(St)CHSWBH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.6	100
RE-02YS(St)CHSWBH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.7	152
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RE-02YS(St)CHSWBH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.7	136
RE-02YS(St)CHSWBH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.1	200
RE-02YS(St)CHSWBH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	84

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHSWBH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.5	159
RE-02YS(St)CHSWBH PiMF4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	247
RE-02YS(St)CHSWBH PiMF 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	90
RE-02YS(St)CHSWBH PiMF 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.8	171
RE-02YS(St)CHSWBH PiMF 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.4	263

Rated Voltage

Standard

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4

Low Toxicity
NES 02-713/NF C 20-454

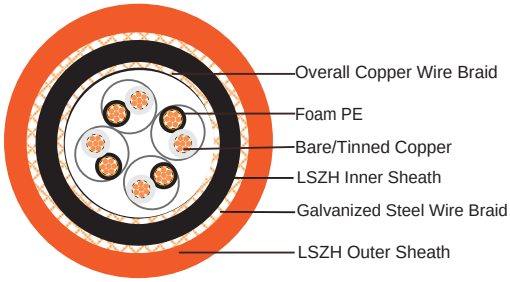
Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02YCHSWBH



APPLICATION

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STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armour: Galvanized steel 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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YCHSWBH 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	8.1	68
RE-02YCHSWBH 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	122
RE-02YCHSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12	165
RE-02YCHSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.6	84
RE-02YCHSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	154
RE-02YCHSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.4	215
RE-02YCHSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9	96
RE-02YCHSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	179

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YCHSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.4	257
RE-02YCHSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.2	103
RE-02YCHSWBH 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.1	192
RE-02YCHSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.7	279

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
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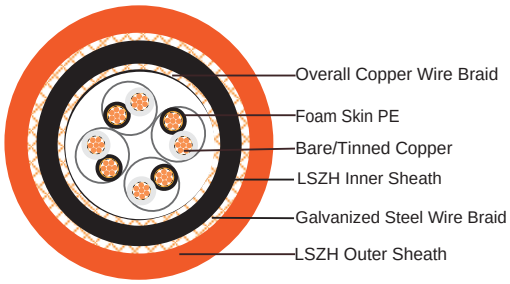
Foam Skin PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened, Galvanized Steel Wire Braided Multipair RS 485 Databus Cables

RE-02YSCHSWBH



APPLICATION

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STANDARDS

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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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

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CABLE CONSTRUCTION

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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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
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RE-02YSCHSWBH 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12	165
RE-02YSCHSWBH 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.6	84
RE-02YSCHSWBH 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	154
RE-02YSCHSWBH 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.4	215
RE-02YSCHSWBH 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9	96
RE-02YSCHSWBH 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	179
RE-02YSCHSWBH 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.4	257

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Braid Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YSCHSWBH 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.2	103
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RE-02YSCHSWBH 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.7	279

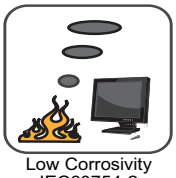
Rated Voltage

Standard

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4

Low Toxicity
NES 02-713/NF C 20-454



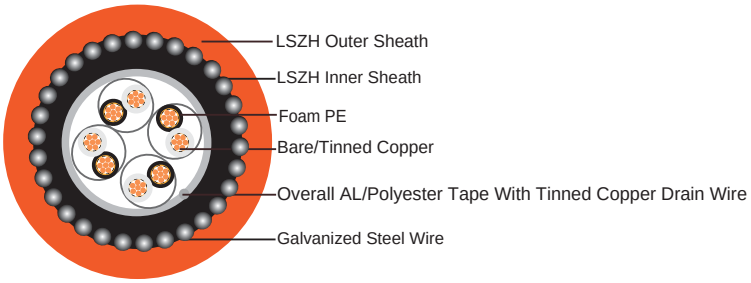
Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Overall Aluminum/polyester Tape Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02Y(St)HSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick -ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)HGSWAH 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	6.9	46
RE-02Y(St)HGSWAH 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	9.7	81
RE-02Y(St)HGSWAH 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	10.8	114
RE-02Y(St)HGSWAH 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.4	58
RE-02Y(St)HGSWAH 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	10.8	107
RE-02Y(St)HGSWAH 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.2	157
RE-02Y(St)HGSWAH 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	7.9	69
RE-02Y(St)HGSWAH 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	11.6	128

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick -ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)HGSWAH 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.2	194
RE-02Y(St)HGSWAH 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	7.9	72
RE-02Y(St)HGSWAH 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	11.9	139
RE-02Y(St)HGSWAH 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	13.6	215

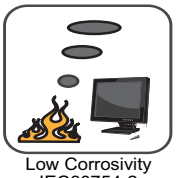
Rated Voltage

Standard

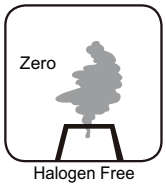

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

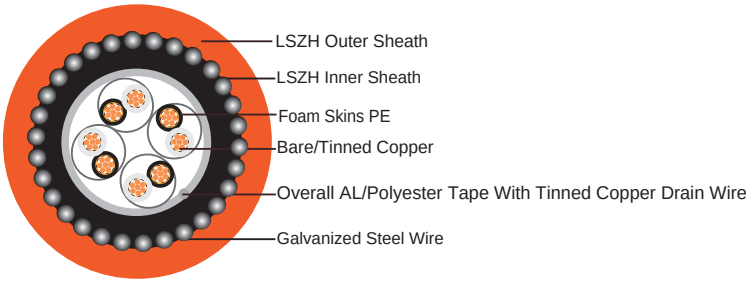

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminum/polyester Tape Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02YS(St)HGSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)HGSWAH 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	6.9	46
RE-02YS(St)HGSWAH 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	9.7	81
RE-02YS(St)HGSWAH 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	10.8	114
RE-02YS(St)HGSWAH 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.4	58
RE-02YS(St)HGSWAH 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	10.8	107
RE-02YS(St)HGSWAH 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.2	157
RE-02YS(St)HGSWAH 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	7.9	69
RE-02YS(St)HGSWAH 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	11.6	128

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)HGSWAH 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.2	194
RE-02YS(St)HGSWAH 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	7.9	72
RE-02YS(St)HGSWAH 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	11.9	139
RE-02YS(St)HGSWAH 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	13.6	215

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

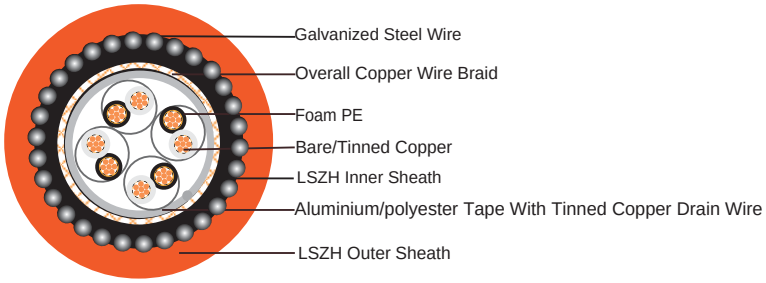

Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam PE Insulated, LSZH Sheathed, Overall Aluminium/polyester Tape & Overall Copper Wire Braid Double Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02Y(St)CHGSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

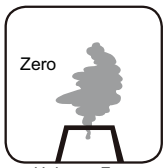
Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Steel Wire Armour Diameter	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHGSWAH1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	59
RE-02Y(St)CHGSWAH2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.2	104
RE-02Y(St)CHGSWAH4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.3	140
RE-02Y(St)CHGSWAH1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	74
RE-02Y(St)CHGSWAH2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.3	133
RE-02Y(St)CHGSWAH4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.7	188
RE-02Y(St)CHGSWAH1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	85
RE-02Y(St)CHGSWAH2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.1	157

Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Steel Wire Armour Diameter	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHGSWAH4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.7	228
RE-02Y(St)CHGSWAH1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	92
RE-02Y(St)CHGSWAH2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.4	169
RE-02Y(St)CHGSWAH4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14	250

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Halogen Free
IEC60754-1
EN50267-2-1

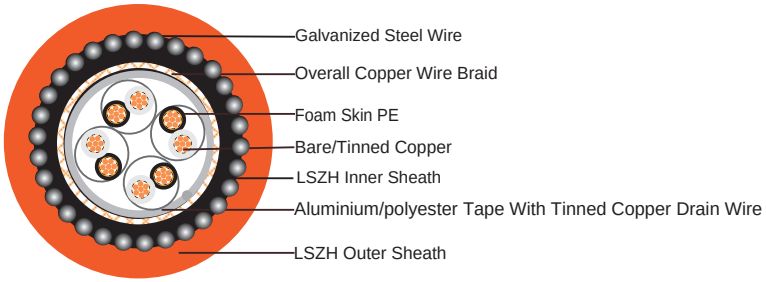

Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Foam Skin PE Insulated, LSZH Sheathed, Overall Aluminium/polyester Tape & Overall Copper Wire Braid Double Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02YS(St)CHGSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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(90% coverage).
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Steel Wire Armour Diameter	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHGSWAH1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	59
RE-02YS(St)CHGSWAH2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.2	104
RE-02YS(St)CHGSWAH4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.3	140
RE-02YS(St)CHGSWAH1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	74
RE-02YS(St)CHGSWAH2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.3	133
RE-02YS(St)CHGSWAH4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.7	188
RE-02YS(St)CHGSWAH1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	85
RE-02YS(St)CHGSWAH2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.1	157
RE-02YS(St)CHGSWAH4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.7	228

Cable Code	No. of pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Steel Wire Armour Diameter	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YS(St)CHGSWAH1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	92
RE-02YS(St)CHGSWAH2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.4	169
RE-02YS(St)CHGSWAH4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14	250

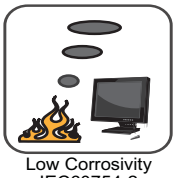
Rated Voltage

Standard

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4

Low Toxicity
NES 02-713/NF C 20-454



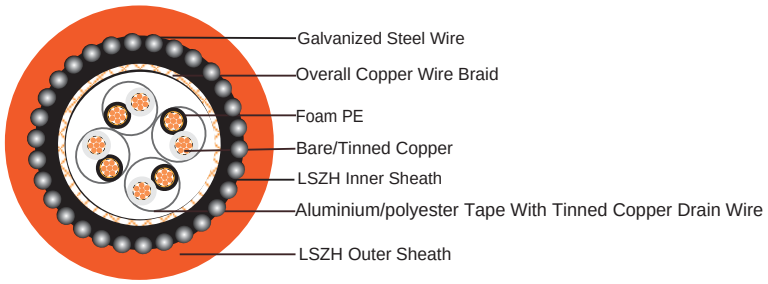
Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02Y(St)CHGSWAH PiMF



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHGSWAH PiMF 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	9.4	58
RE-02Y(St)CHGSWAH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	12.3	103
RE-02Y(St)CHGSWAH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	13.5	151
RE-02Y(St)CHGSWAH PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	9.9	76
RE-02Y(St)CHGSWAH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	13.4	138
RE-02Y(St)CHGSWAH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	14.8	200
RE-02Y(St)CHGSWAH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	10.4	88

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)CHGSWAH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	14.2	163
RE-02Y(St)CHGSWAH PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	15.8	242
RE-02Y(St)CHGSWAH PiMF 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	10.5	94
RE-02Y(St)CHGSWAH PiMF 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	14.5	175
RE-02Y(St)CHGSWAH PiMF 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	16.2	264

Rated Voltage

Standard

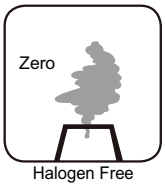

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

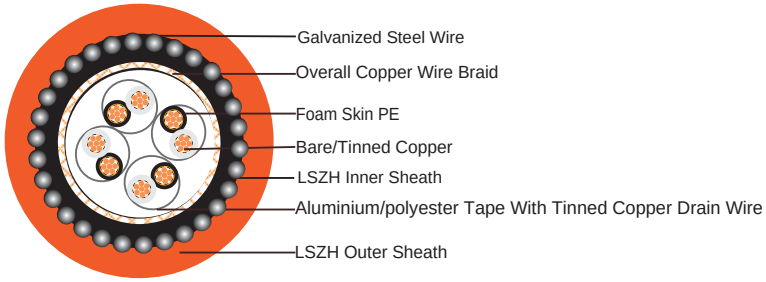

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Individual Aluminium/polyester Tape & Overall Copper Wire Braid Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02YS(St)CHGSWAH PiMF



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard..

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)SCHGSWAH PiMF1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	9.4	58
RE-02Y(St)SCHGSWAH PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	12.3	103
RE-02Y(St)SCHGSWAH PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	13.5	151
RE-02Y(St)SCHGSWAH PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	9.9	76
RE-02Y(St)SCHGSWAH PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	13.4	138
RE-02Y(St)SCHGSWAH PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	14.8	200
RE-02Y(St)SCHGSWAH PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	10.4	88

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02Y(St)SCHGSWAH PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	14.2	163
RE-02Y(St)SCHGSWAH PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	15.8	242
RE-02Y(St)SCHGSWAH PiMF 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	10.5	94
RE-02Y(St)SCHGSWAH PiMF 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	14.5	175
RE-02Y(St)SCHGSWAH PiMF 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	16.2	264

Rated Voltage

Standard

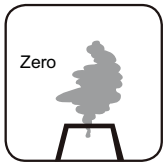

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

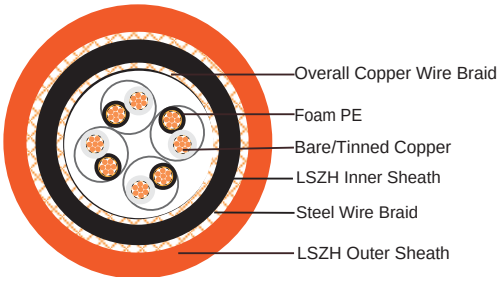

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02YCHGSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam 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.
Inner Sheath: Thermoplastic LSZH compound.
Armoured: Galvanized steel wire.
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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YCHGSWAH 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	9.2	56
RE-02YCHGSWAH 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	12.1	100
RE-02YCHGSWAH 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	13.2	136
RE-02YCHGSWAH 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	9.8	71
RE-02YCHGSWAH 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	13.2	129
RE-02YCHGSWAH 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	15.6	183
RE-02YCHGSWAH 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	10.3	83
RE-02YCHGSWAH 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	14	152
RE-02YCHGSWAH 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	15.6	223

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YCHGSWAH 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	10.4	89
RE-02YCHGSWAH 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	14.3	165
RE-02YCHGSWAH 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	16	244

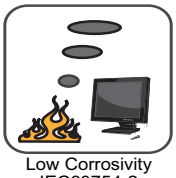
Rated Voltage

Standard

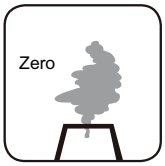

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074

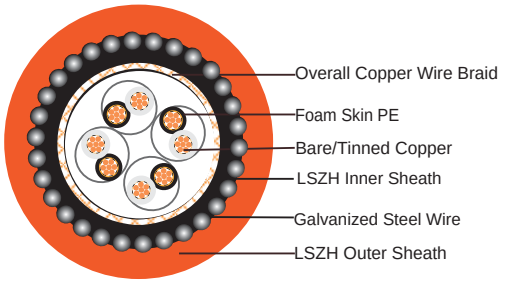

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1

Foam Skin PE Insulated, LSZH Sheathed, Overall Copper Wire Braid Screened, Galvanized Steel Wire Armoured Multipair RS 485 Databus Cables

RE-02YSCHGSWAH



APPLICATION

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design adapted 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 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); 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; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); 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; NF C 20-454

Note: Asterisk * denotes superseded standard.

CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: 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.
Inner Sheath: Thermoplastic LSZH compound.
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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.) UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

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	2000 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

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YSCHGSWAH 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	9.2	56
RE-02YSCHGSWAH 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	12.1	100
RE-02YSCHGSWAH 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	13.2	136
RE-02YSCHGSWAH 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	9.8	71
RE-02YSCHGSWAH 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	13.2	129
RE-02YSCHGSWAH 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	15.6	183
RE-02YSCHGSWAH 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	10.3	83
RE-02YSCHGSWAH 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	14	152

Cable Code	No. of Pair	Nominal Cross Sectional Area	No./ Nominal Diameter of Strands	Nominal Insulation Thick-ness	Steel Wire Armour Diameter	Nominal Sheath Thick-ness	Nominal Overall Diameter	Approx. Weight
	No	mm^2	No/mm	mm	mm	mm	mm	kg/km
RE-02YSCHGSWAH 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	15.6	223
RE-02YSCHGSWAH 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	10.4	89
RE-02YSCHGSWAH 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	14.3	165
RE-02YSCHGSWAH 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	16	244

Rated Voltage

Standard


Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


Low Toxicity
NES 02-713/NF C 20-454


Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074


Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

TYPE CODES

RE-A-B-C-D

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