Caledonian

FIREGUARD PVC 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 ..... 6th September 1997
Current Certificate ..... 7th February 2011
Certificate Expiry ..... 7th February 2012
Certificate Number A6211

On behalf of QAS International
www.qas-international.com

This certificate remains valid while the holder maintains their quality administration systems in accordance with the standards and guidelines stated above, which will be audited annually by QAS International. The holder is entitled to display the above registration mark for the duration of this certificate. This certificate must be returned to QAS International on reasonable request.
Issuing Office: QAS International, The Gig House, Orford Street, Malmesbury, Wiltshire, SN16 9AX

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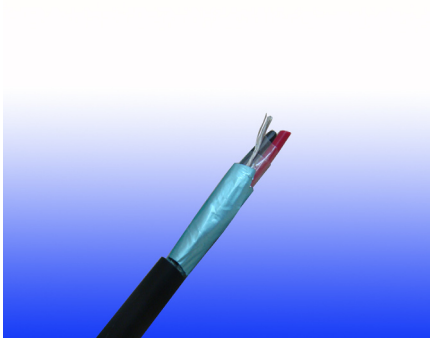
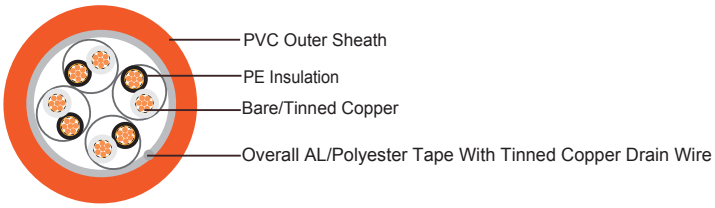
Foam PE Insulated, PVC Sheathed, Overall Aluminum/Polyester Tape Screened Multipair RS 485 Databus Cables

RE-02Y(St)Y





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)Y 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.0	21
RE-02Y(St)Y 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.1	42
RE-02Y(St)Y 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.3	68
RE-02Y(St)Y 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.6	32
RE-02Y(St)Y 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.2	68
RE-02Y(St)Y 4×2×0.5	4	0.50	16/0.2	0.7	1.1	11.8	115
RE-02Y(St)Y 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.1	40
RE-02Y(St)Y 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.1	84
RE-02Y(St)Y 4×2×0.75	4	0.75	24/0.2	0.7	1.1	12.9	144
RE-02Y(St)Y 1×2×1	1	1.00	30/0.2	0.7	1.1	7.2	49

PVC Fire Retardant RS485 Screened Databus Cables

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)Y 2×2×1	2	1.00	30/0.2	0.7	1.1	11.5	105
RE-02Y(St)Y 4×2×1	4	1.00	30/0.2	0.7	1.1	13.2	182

Rated Voltage

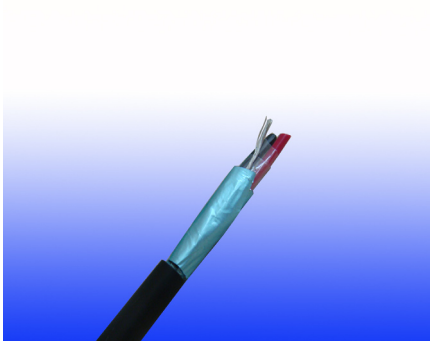
Standard

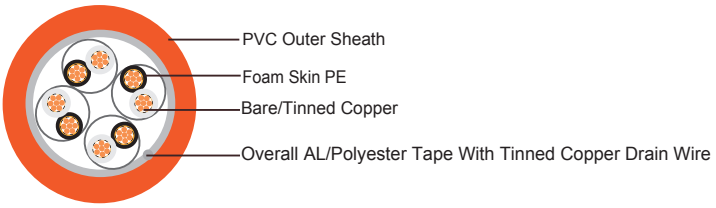
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)Y





APPLICATION

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STANDARDS

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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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)Y 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.0	21
RE-02YS(St)Y 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.1	42
RE-02YS(St)Y 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.3	68
RE-02YS(St)Y 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.6	32
RE-02YS(St)Y 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.2	68
RE-02YS(St)Y 4×2×0.5	4	0.50	16/0.2	0.7	1.1	11.8	115
RE-02YS(St)Y 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.1	40
RE-02YS(St)Y 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.1	84
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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
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RE-02YS(St)Y 2×2×1	2	1.00	30/0.2	0.7	1.1	11.5	105
RE-02YS(St)Y 4×2×1	4	1.00	30/0.2	0.7	1.1	13.2	182

Rated Voltage

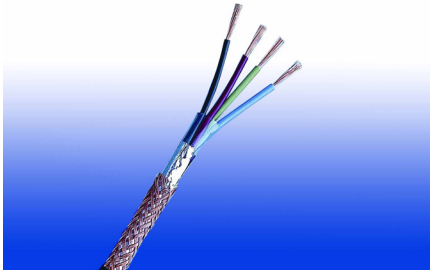
Standard

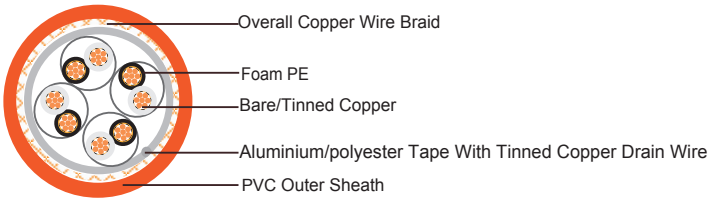

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)CY





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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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CY 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.5	34
RE-02Y(St)CY 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.5	67
RE-02Y(St)CY 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.8	97
RE-02Y(St)CY 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.1	48
RE-02Y(St)CY 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.7	97
RE-02Y(St)CY 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.3	150

PVC Fire Retardant RS485 Screened Databus Cables

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)CY 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.6	57
RE-02Y(St)CY 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.7	116
RE-02Y(St)CY 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.4	182
RE-02Y(St)CY 1×2×1	1	1.00	30/0.2	0.7	1.1	7.7	67
RE-02Y(St)CY 2×2×1	2	1.00	30/0.2	0.7	1.1	12.0	138
RE-02Y(St)CY 4×2×1	4	1.00	30/0.2	0.7	1.1	13.8	222

Rated Voltage

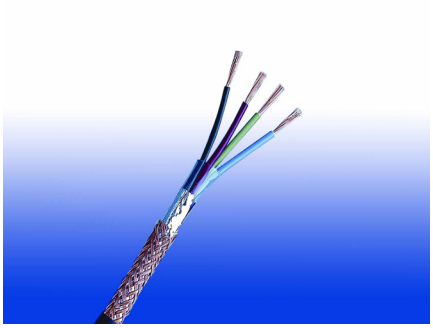
Standard

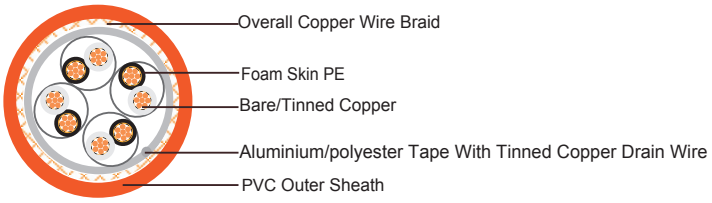
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)CY





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CABLE CONSTRUCTION

Conductors: Bare or tinned copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Foam skin PE.
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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)CY 2×2×1	2	1.00	30/0.2	0.7	1.1	12.0	138
RE-02SY(St)CH 4×2×1	4	1.00	30/0.2	0.7	1.1	13.8	222

Rated Voltage

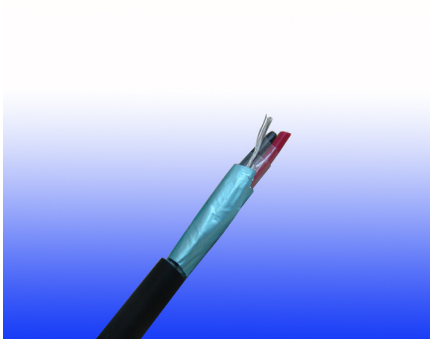
Standard

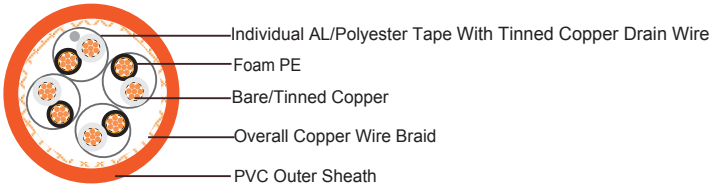
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)CY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CY PiMF 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.4	35
RE-02Y(St)CY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.5	69
RE-02Y(St)CY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.8	106
RE-02Y(St)CY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.0	49
RE-02Y(St)CY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.7	100
RE-02Y(St)CY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.3	159
RE-02Y(St)CY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.5	58
RE-02Y(St)CY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.7	119
RE-02Y(St)CY PiMF 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.2	174

PVC Fire Retardant RS485 Screened Databus Cables

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)CY PiMF 1×2×1	1	1.00	30/0.2	0.7	1.1	7.6	68
RE-02Y(St)CY PiMF 2×2×1	2	1.00	30/0.2	0.7	1.1	12.0	142
RE-02Y(St)CY PiMF 4×2×1	4	1.00	30/0.2	0.7	1.1	13.8	234

Rated Voltage

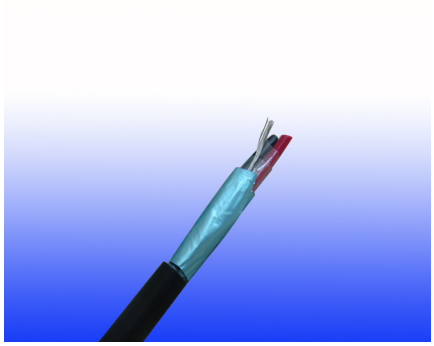
Standard

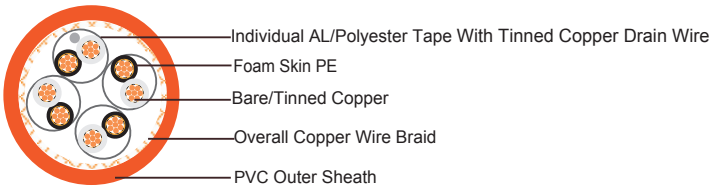
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)CY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

PVC Fire Retardant RS485 Screened Databus Cables

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CY PiMF 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.4	35
RE-02YS(St)CY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.5	69
RE-02YS(St)CY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.8	106
RE-02YS(St)CY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	1.1	7.0	49
RE-02YS(St)CY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.7	100
RE-02YS(St)CY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.3	159
RE-02YS(St)CY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.5	58
RE-02YS(St)CY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.7	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)CY PiMF 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.2	174
RE-02YS(St)CY PiMF 1×2×1	1	1.00	30/0.2	0.7	1.1	7.6	68
RE-02YS(St)CY PiMF 2×2×1	2	1.00	30/0.2	0.7	1.1	12.0	142
RE-02YS(St)CY PiMF 4×2×1	4	1.00	30/0.2	0.7	1.1	13.8	234

Rated Voltage

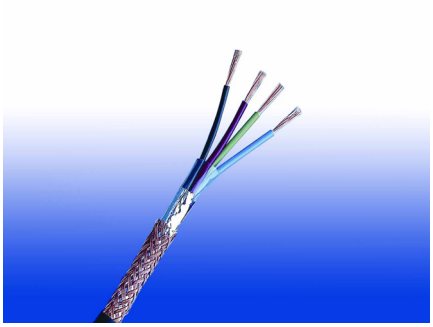
Standard

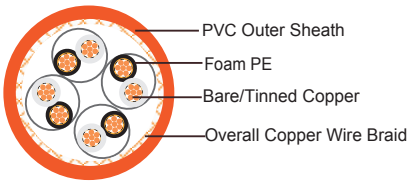
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YCY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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-02YCY 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.3	31
RE-02YCY 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.3	61
RE-02YCY 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.5	91
RE-02YCY 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.9	44
RE-02YCY 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.5	91
RE-02YCY 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.0	142
RE-02YCY 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.4	53
RE-02YCY 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.5	109
RE-02YCY 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.2	174

PVC Fire Retardant RS485 Screened Databus Cables

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-02YCY 1×2×1	1	1.00	30/0.2	0.7	1.1	7.5	63
RE-02YCY 2×2×1	2	1.00	30/0.2	0.7	1.1	11.8	131
RE-02YCY 4×2×1	4	1.00	30/0.2	0.7	1.1	13.5	213

Rated Voltage

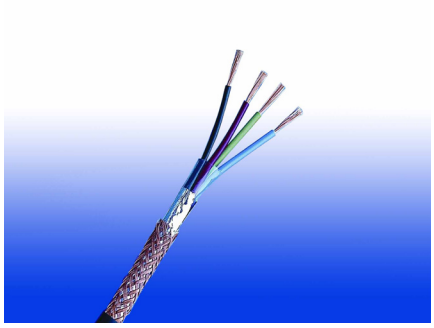
Standard

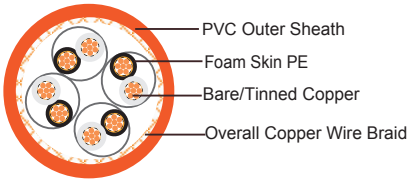
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YSCY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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-02YSCY 1×2×0.22	1	0.22	7/0.2	0.7	1.1	6.3	31
RE-02YSCY 2×2×0.22	2	0.22	7/0.2	0.7	1.1	9.3	61
RE-02YSCY 4×2×0.22	4	0.22	7/0.2	0.7	1.1	10.5	91
RE-02YSCY 1×2×0.5	1	0.50	16/0.2	0.7	1.1	6.9	44
RE-02YSCY 2×2×0.5	2	0.50	16/0.2	0.7	1.1	10.5	91
RE-02YSCY 4×2×0.5	4	0.50	16/0.2	0.7	1.1	12.0	142
RE-02YSCY 1×2×0.75	1	0.75	24/0.2	0.7	1.1	7.4	53
RE-02YSCY 2×2×0.75	2	0.75	24/0.2	0.7	1.1	11.5	109

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-02YSCY 4×2×0.75	4	0.75	24/0.2	0.7	1.1	13.2	174
RE-02YSCY 1×2×1	1	1.00	30/0.2	0.7	1.1	7.5	63
RE-02YSCY 2×2×1	2	1.00	30/0.2	0.7	1.1	11.8	131
RE-02YSCY 4×2×1	4	1.00	30/0.2	0.7	1.1	13.5	213

Rated Voltage

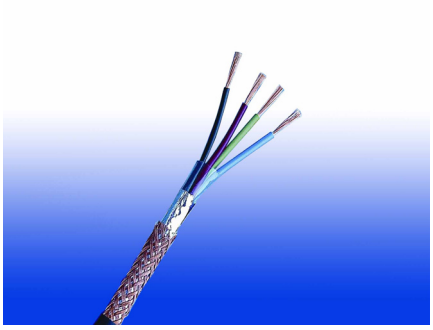
Standard

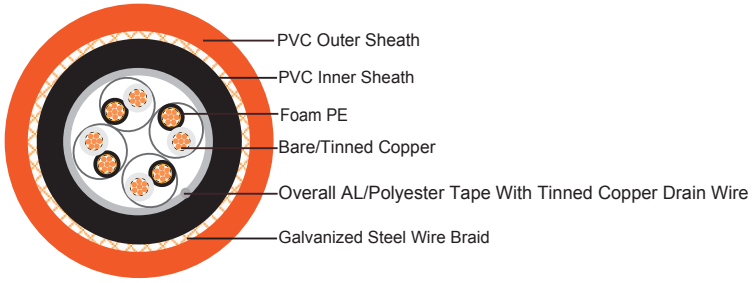
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)YSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)YSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	56
RE-02Y(St)YSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.5	102
RE-02Y(St)YSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.6	142
RE-02Y(St)YSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.3	70
RE-02Y(St)YSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.6	131
RE-02Y(St)YSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13	188
RE-02Y(St)YSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	81

PVC 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)YSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.4	154
RE-02Y(St)YSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14	227
RE-02Y(St)YSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	87
RE-02Y(St)YSWBY 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.7	166
RE-02Y(St)YSWBY 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.3	249

Rated Voltage

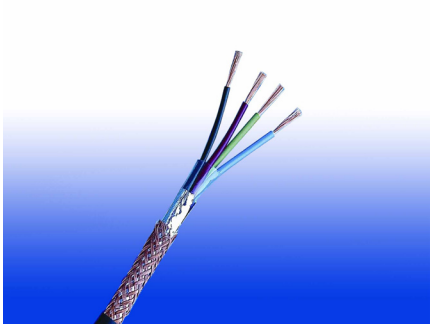
Standard

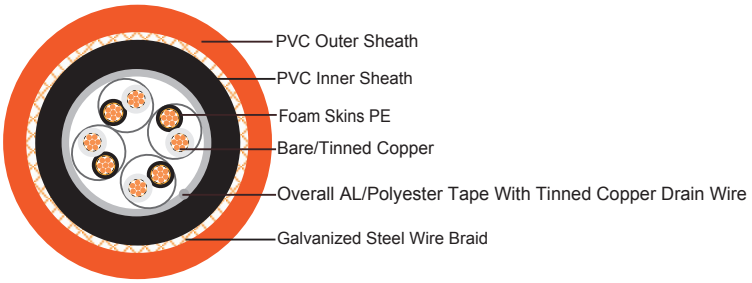
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)YSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)YSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	56
RE-02YS(St)YSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.5	102
RE-02YS(St)YSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.6	142
RE-02YS(St)YSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.3	70
RE-02YS(St)YSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.6	131

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)YSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13	188
RE-02YS(St)YSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	81
RE-02YS(St)YSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.4	154
RE-02YS(St)YSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14	227
RE-02YS(St)YSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	87
RE-02YS(St)YSWBY 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.7	166
RE-02YS(St)YSWBY 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.3	249

Rated Voltage

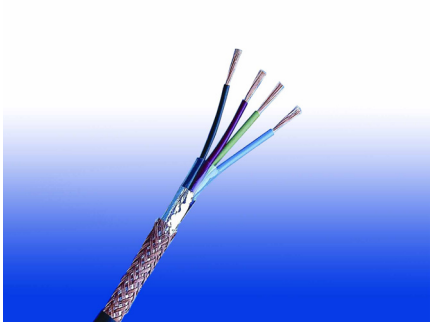
Standard

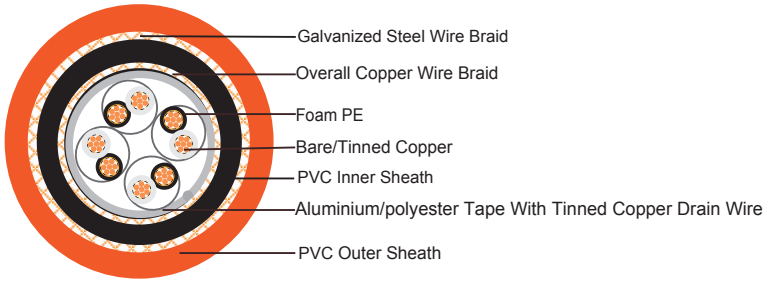
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)CYSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	5.1	71
RE-02Y(St)CYSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	127
RE-02Y(St)CYSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12.1	170
RE-02Y(St)CYSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.7	87
RE-02Y(St)CYSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	159
RE-02Y(St)CYSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.5	221

PVC 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)CYSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9.2	100
RE-02Y(St)CYSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	185
RE-02Y(St)CYSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	264
RE-02Y(St)CYSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.3	106
RE-02Y(St)CYSWBY 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.2	198
RE-02Y(St)CYSWBY 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.8	286

Rated Voltage

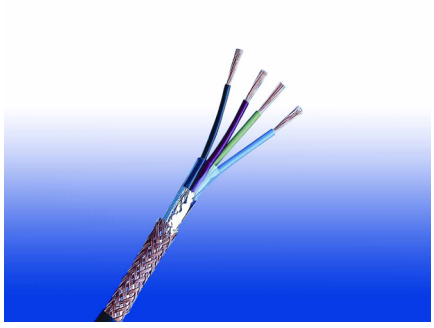
Standard

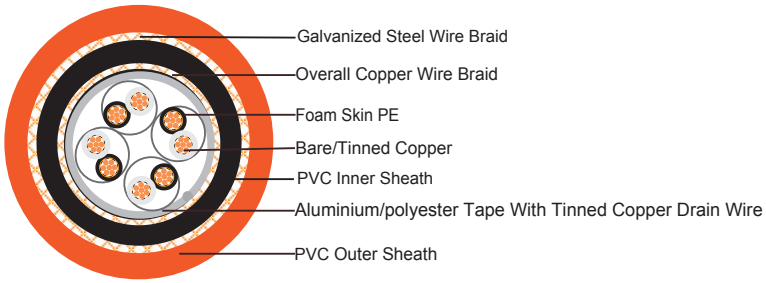
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)CYSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	5.1	71
RE-02YS(St)CYSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	127
RE-02YS(St)CYSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	12.1	170
RE-02YS(St)CYSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.7	87
RE-02YS(St)CYSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	159

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)CYSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.5	221
RE-02YS(St)CYSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	9.2	100
RE-02YS(St)CYSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	185
RE-02YS(St)CYSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	264
RE-02YS(St)CYSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.3	106
RE-02YS(St)CYSWBY 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

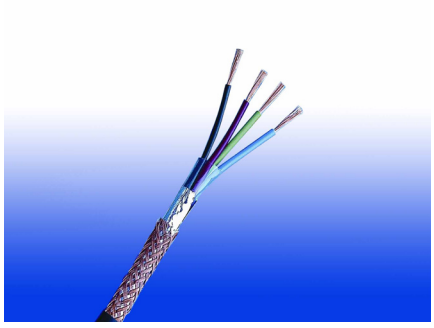
Standard

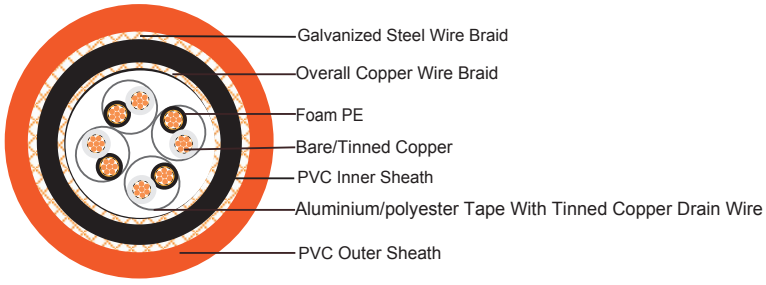

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)CYSWBY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYSWBY PiMF1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	54
RE-02Y(St)CYSWBY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.6	100
RE-02Y(St)CYSWBY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.7	152
RE-02Y(St)CYSWBY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.2	72
RE-02Y(St)CYSWBY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.7	136
RE-02Y(St)CYSWBY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.1	200

PVC 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)CYSWBY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	84
RE-02Y(St)CYSWBY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.5	159
RE-02Y(St)CYSWBY PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	247
RE-02Y(St)CYSWBY PiMF 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	90
RE-02Y(St)CYSWBY PiMF 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.8	171
RE-02Y(St)CYSWBY PiMF 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.4	263

Rated Voltage

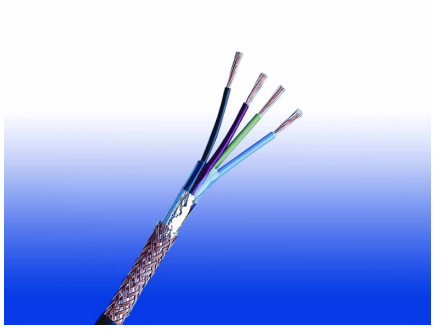
Standard

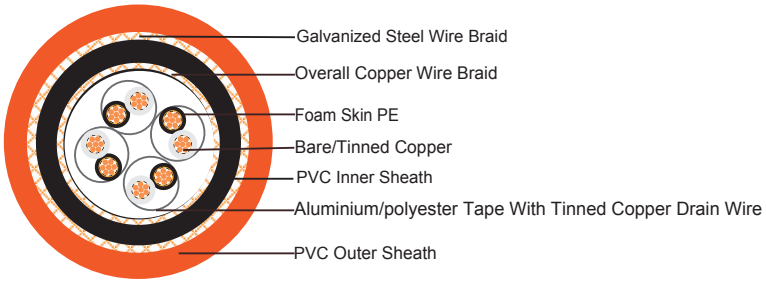
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)CYSWBY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYSWBY PiMF 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	7.7	54
RE-02YS(St)CYSWBY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.6	100
RE-02YS(St)CYSWBY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.7	152
RE-02YS(St)CYSWBY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.2	72

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)CYSWBY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.7	136
RE-02YS(St)CYSWBY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.1	200
RE-02YS(St)CYSWBY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.7	84
RE-02YS(St)CYSWBY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.5	159
RE-02YS(St)CYSWBY PiMF4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.5	247
RE-02YS(St)CYSWBY PiMF 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	8.8	90
RE-02YS(St)CYSWBY PiMF 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	12.8	171
RE-02YS(St)CYSWBY PiMF 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.4	263

Rated Voltage

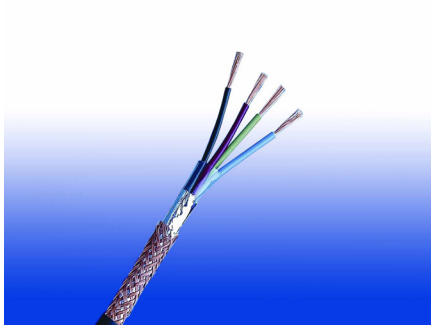
Standard

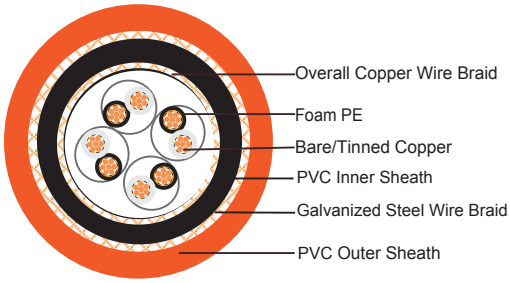
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YCYSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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-02YCYSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	8.1	68
RE-02YCYSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	122
RE-02YCYSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.8	165
RE-02YCYSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.6	84
RE-02YCYSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	154
RE-02YCYSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.4	215
RE-02YCYSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.8	96

PVC 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-02YCYSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	179
RE-02YCYSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.4	257
RE-02YCYSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.2	103
RE-02YCYSWBY 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.1	192
RE-02YCYSWBY 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.7	279

Rated Voltage

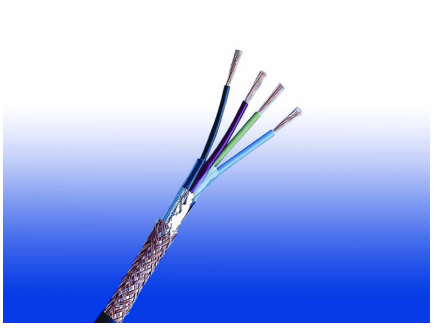
Standard

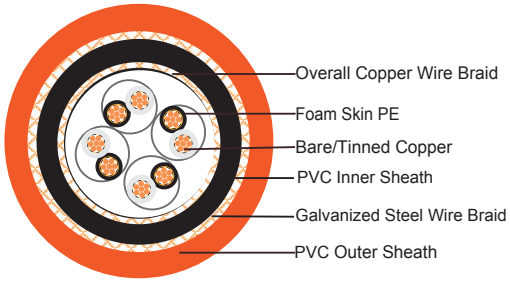
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YSCYSWBY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

PVC Flire Retardant RS485 Screened & GSWB Databus Cable

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 PVC compound.
Armour: Galvanized steel wire braid.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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-02YSCYSWBY 1×2×0.22	1	0.22	7/0.2	0.7	0.2	1.1	8.1	68
RE-02YSCYSWBY 2×2×0.22	2	0.22	7/0.2	0.7	0.2	1.1	10.9	122
RE-02YSCYSWBY 4×2×0.22	4	0.22	7/0.2	0.7	0.2	1.1	11.8	165
RE-02YSCYSWBY 1×2×0.5	1	0.50	16/0.2	0.7	0.25	1.1	8.6	84
RE-02YSCYSWBY 2×2×0.5	2	0.50	16/0.2	0.7	0.25	1.1	11.9	154
RE-02YSCYSWBY 4×2×0.5	4	0.50	16/0.2	0.7	0.25	1.1	13.4	215
RE-02YSCYSWBY 1×2×0.75	1	0.75	24/0.2	0.7	0.25	1.1	8.8	96

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-02YSCYSWBY 2×2×0.75	2	0.75	24/0.2	0.7	0.25	1.1	12.9	179
RE-02YSCYSWBY 4×2×0.75	4	0.75	24/0.2	0.7	0.25	1.1	14.4	257
RE-02YSCYSWBY 1×2×1	1	1.00	30/0.2	0.7	0.3	1.1	9.2	103
RE-02YSCYSWBY 2×2×1	2	1.00	30/0.2	0.7	0.3	1.1	13.1	192
RE-02YSCYSWBY 4×2×1	4	1.00	30/0.2	0.7	0.3	1.1	14.7	279

Rated Voltage

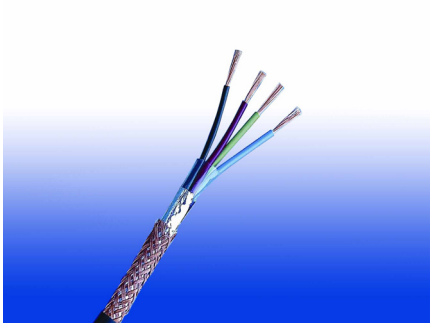
Standard

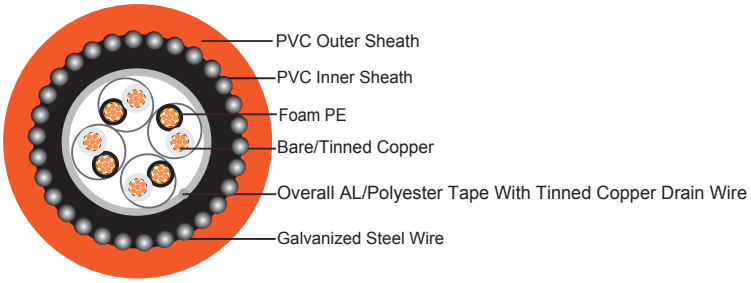
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)YGSWAY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)YGSWAY 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	6.9	46
RE-02Y(St)YGSWAY 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	9.7	81
RE-02Y(St)YGSWAY 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	10.8	114
RE-02Y(St)YGSWAY 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.4	58
RE-02Y(St)YGSWAY 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	10.8	107
RE-02Y(St)YGSWAY 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.2	157
RE-02Y(St)YGSWAY 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	7.9	69

PVC Fire Retardant RS485 Screened & GSWA Databus Cables

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)YGSWAY 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	11.6	128
RE-02Y(St)YGSWAY 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.2	194
RE-02Y(St)YGSWAY 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	7.9	72
RE-02Y(St)YGSWAY 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	11.9	139
RE-02Y(St)YGSWAY 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	13.6	215

Rated Voltage

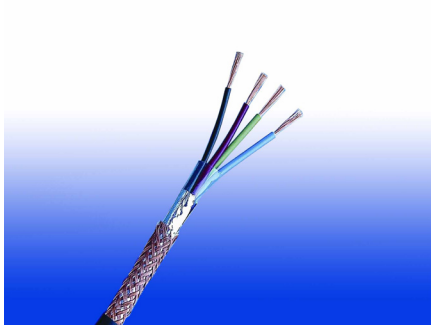
Standard

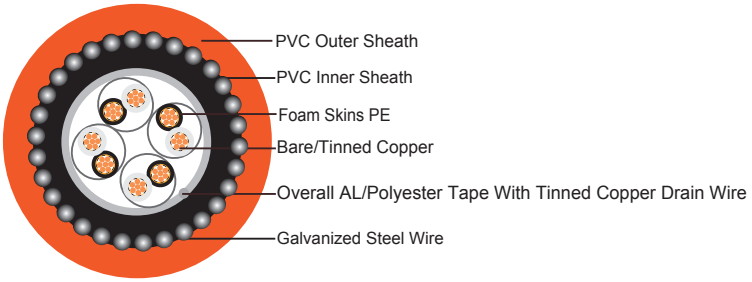
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)YGSWAY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)YGSWAY 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	6.9	46
RE-02YS(St)YGSWAY 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	9.7	81
RE-02YS(St)YGSWAY 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	10.8	114
RE-02YS(St)YGSWAY 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.4	58
RE-02YS(St)YGSWAY 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	10.8	107
RE-02YS(St)YGSWAY 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.2	157
RE-02YS(St)YGSWAY 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	7.9	69

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)YGSWAY 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	11.6	128
RE-02YS(St)YGSWAY 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.2	194
RE-02YS(St)YGSWAY 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	7.9	72
RE-02YS(St)YGSWAY 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	11.9	139
RE-02YS(St)YGSWAY 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	13.6	215

Rated Voltage

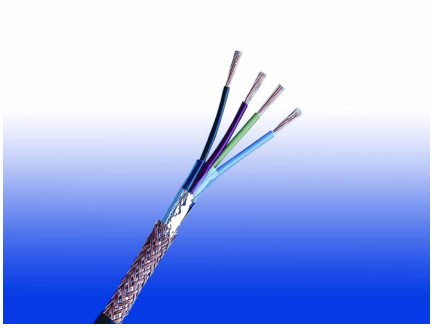
Standard

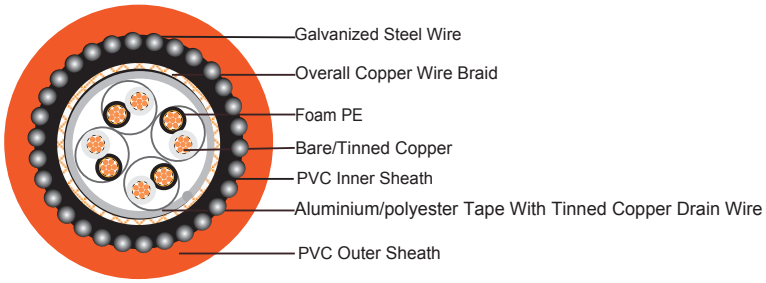
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

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

RE-02Y(St)CYGSWAY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYGSWAY1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	59
RE-02Y(St)CYGSWAY2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.2	104
RE-02Y(St)CYGSWAY4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.3	140
RE-02Y(St)CYGSWAY1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	74
RE-02Y(St)CYGSWAY2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.3	133
RE-02Y(St)CYGSWAY4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.7	188
RE-02Y(St)CYGSWAY1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	85

PVC Fire Retardant RS485 Screened & GSWA Databus Cables

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)CYGSWAY2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.1	157
RE-02Y(St)CYGSWAY4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.7	228
RE-02Y(St)CYGSWAY1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	92
RE-02Y(St)CYGSWAY2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.4	169
RE-02Y(St)CYGSWAY4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14	250

Rated Voltage

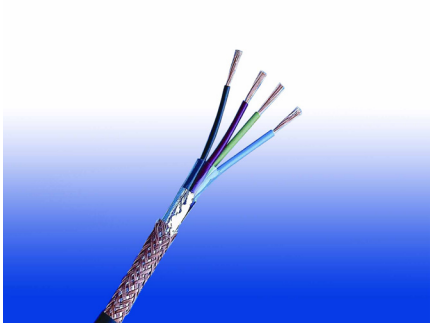
Standard

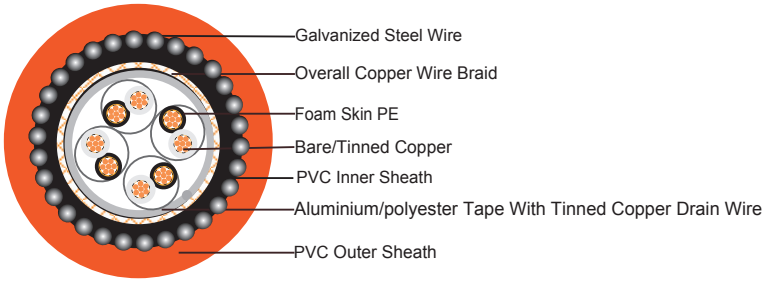
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Halogen Free
IEC60754-1
EN50267-2-1

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

RE-02YS(St)CYGSWAY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYGSWAY1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	59
RE-02YS(St)CYGSWAY2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.2	104
RE-02YS(St)CYGSWAY4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.3	140
RE-02YS(St)CYGSWAY1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	74
RE-02YS(St)CYGSWAY2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.3	133
RE-02YS(St)CYGSWAY4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.7	188
RE-02YS(St)CYGSWAY1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	85

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)CYGSWAY2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.1	157
RE-02YS(St)CYGSWAY4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.7	228
RE-02YS(St)CYGSWAY1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	92
RE-02YS(St)CYGSWAY2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.4	169
RE-02YS(St)CYGSWAY4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14	250

Rated Voltage

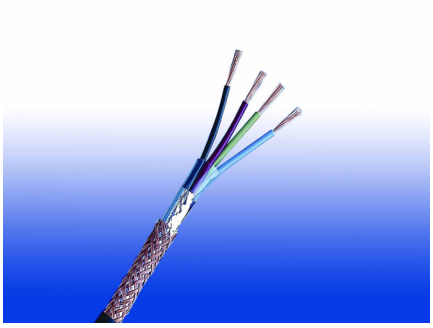
Standard

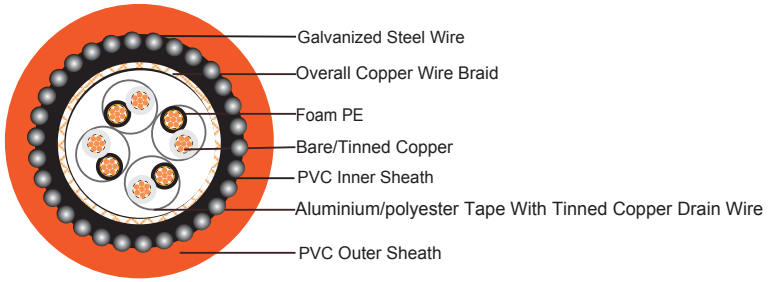
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02Y(St)CYGSWAY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYGSWAY PiMF 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	58
RE-02Y(St)CYGSWAY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.3	103
RE-02Y(St)CYGSWAY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.5	151
RE-02Y(St)CYGSWAY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	76
RE-02Y(St)CYGSWAY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.4	138
RE-02Y(St)CYGSWAY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.8	200
RE-02Y(St)CYGSWAY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	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)CYGSWAY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.2	163
RE-02Y(St)CYGSWAY PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.8	242
RE-02Y(St)CYGSWAY PiMF 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	94
RE-02Y(St)CYGSWAY PiMF 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.5	175
RE-02Y(St)CYGSWAY PiMF 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14.2	264

Rated Voltage

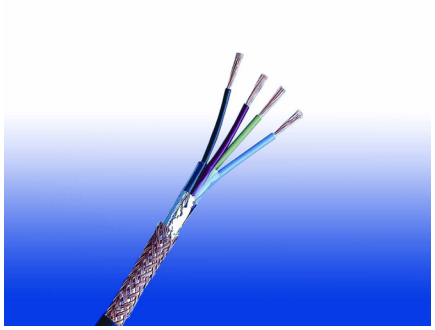
Standard

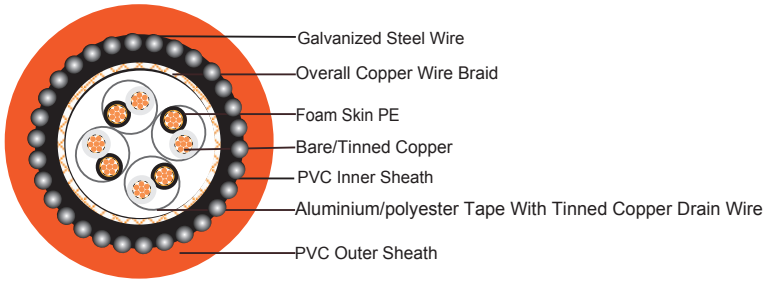

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YS(St)CYGSWAY 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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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)CYGSWAY PiMF1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.4	58
RE-02YS(St)CYGSWAY PiMF 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.3	103
RE-02YS(St)CYGSWAY PiMF 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.5	151
RE-02YS(St)CYGSWAY PiMF 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.9	76
RE-02YS(St)CYGSWAY PiMF 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.4	138
RE-02YS(St)CYGSWAY PiMF 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.8	200

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)CYGSWAY PiMF 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.4	88
RE-02YS(St)CYGSWAY PiMF 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12.2	163
RE-02YS(St)CYGSWAY PiMF 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.8	242
RE-02YS(St)CYGSWAY PiMF 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.5	94
RE-02YS(St)CYGSWAY PiMF 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.5	175
RE-02YS(St)CYGSWAY PiMF 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14.2	264

Rated Voltage

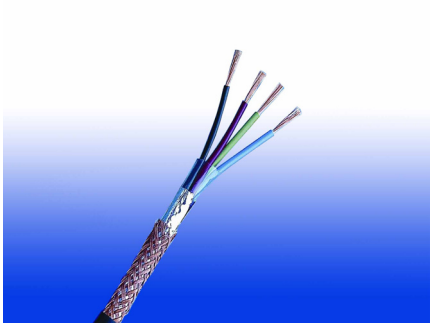
Standard

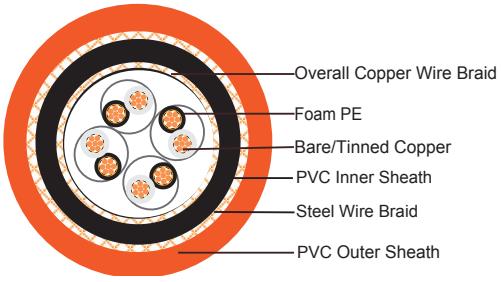
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YCYGSWAY





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 60332-3-22 (cat. A); IEC 60332-3-22; BS EN 60332-3-22; 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

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

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 PVC compound.
Armoured: Galvanized steel wire.
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

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-02YCYGSWAY 1×2×0.22	1	0.22	7/0.2	0.7	0.9	1.1	7.2	56
RE-02YCYGSWAY 2×2×0.22	2	0.22	7/0.2	0.7	0.9	1.1	10.1	100
RE-02YCYGSWAY 4×2×0.22	4	0.22	7/0.2	0.7	0.9	1.1	11.2	136
RE-02YCYGSWAY 1×2×0.5	1	0.50	16/0.2	0.7	0.9	1.1	7.8	71
RE-02YCYGSWAY 2×2×0.5	2	0.50	16/0.2	0.7	0.9	1.1	11.2	129
RE-02YCYGSWAY 4×2×0.5	4	0.50	16/0.2	0.7	0.9	1.1	12.6	183
RE-02YCYGSWAY 1×2×0.75	1	0.75	24/0.2	0.7	0.9	1.1	8.3	83
RE-02YCYGSWAY 2×2×0.75	2	0.75	24/0.2	0.7	0.9	1.1	12	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-02YCYGSWAY 4×2×0.75	4	0.75	24/0.2	0.7	0.9	1.1	13.6	223
RE-02YCYGSWAY 1×2×1	1	1.00	30/0.2	0.7	0.9	1.1	8.4	89
RE-02YCYGSWAY 2×2×1	2	1.00	30/0.2	0.7	0.9	1.1	12.3	165
RE-02YCYGSWAY 4×2×1	4	1.00	30/0.2	0.7	0.9	1.1	14	244

Rated Voltage

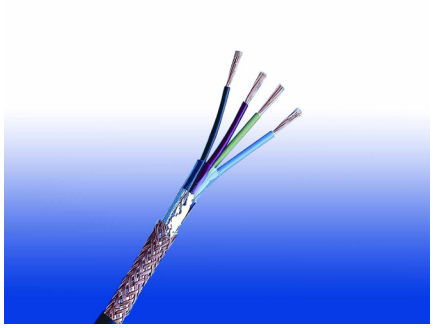
Standard

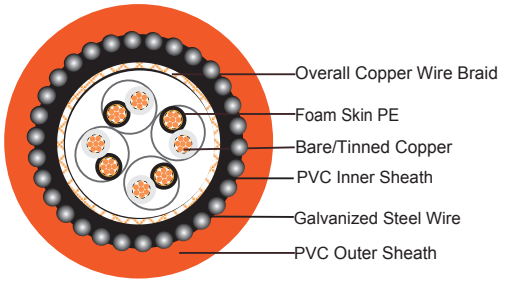

Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-22
EN50266-2-4

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

RE-02YSCYGSWAY





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CABLE CONSTRUCTION

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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)
IEC60332-3-22
EN50266-2-4

TYPE CODES

RE-A-B-C-D

ADDISON

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