



UNITRONIC® BUS FOUNDATION™ Fieldbus



Info

- FOUNDATION™ Fieldbus cable is suitable for data communication network for industrial process control instruments

Application range

- Stationary application
- Indoor / outdoor applications
- Direct burial (Armoured version)

Product Make-up

For RE-2X(ST)Y :

- Stranded bare annealed copper wires
- Cross-link polyethylene insulation
- Cores twisted into pair
- Al-My pair shielding + tinned copper drain wire

Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.

- PVC outer sheath - Flame retardant, orange

For RE-2X(ST)YRY (SWA) :

- Stranded bare annealed copper wires
- Cross-link polyethylene insulation
- Cores twisted into pair
- Al-My pair shielding + tinned annealed copper drain wire

Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.

- PVC bedding - Flame retardant, orange
- Steel wire armoured (SWA)
- PVC outer sheath - Flame retardant, orange or black

For RE-2X(ST)CY :

- Stranded bare annealed copper wires
- Cross-link polyethylene insulation
- Cores twisted into pair
- Al-My pair shielding + tinned annealed copper drain wire

Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.

- Tinned copper wire braiding
- PVC outer sheath - Flame retardant, orange

For RE-2X(ST)CYRY (SWA) :

- Cross-link polyethylene insulation
- Cores twisted into pair
- Al-My pair shielding + tinned annealed copper drain wire

Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.

- Tinned copper wire braiding
- PVC bedding - Flame retardant, orange
- Steel wire armoured (SWA)
- PVC outer sheath - Flame retardant, orange or black

Norm references / Approvals

- Unarmoured version: UL AWM Style 2464 and CMX rated

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

see table below
(Note: for multipair cable, blue colour core has number marking)



Mutual capacitance

C/C : approx. 65 pF/m
C/S : approx. 125 pF/m



Peak operating voltage

300 V (not for power applications)



Minimum bending radius

10 x cable diameter (unarmoured)
12 x cable diameter (armoured)

Characteristics impedance

100 ± 20 Ohm at 31.25 kHz



Temperature range

-30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Core insulation colour	Copper index (kg/km)	Weight (kg/km)
RE-2X(ST)Y					
3804881	1 x 2 x 18 AWG	7.8	BU/OG	20.5	67
3804881A	1 x 2 x 18 AWG	7.8	BU/BN	20.5	67
3804882	2 x 2 x 18 AWG	11.8	BU/OG	45.9	110
3804882A	2 x 2 x 18 AWG	11.8	BU/BN	45.9	110
3804886	1 x 2 x 16 AWG	7.8	BU/OG	32.4	99
3804886A	1 x 2 x 16 AWG	7.8	BU/BN	32.4	99
3804887	2 x 2 x 16 AWG	11.8	BU/OG	69.9	155
3804887A	2 x 2 x 16 AWG	11.8	BU/BN	69.9	155
RE-2X(ST)CY					
3804901	1 x 2 x 18 AWG	7.8	BU/OG	40.0	83
3804901A	1 x 2 x 18 AWG	7.9	BU/BN	40.0	83
3804902	2 x 2 x 18 AWG	10.8	BU/OG	70.5	125
3804902A	2 x 2 x 18 AWG	10.8	BU/BN	70.5	125
3804906	1 x 2 x 16 AWG	9.9	BU/OG	66.7	125
3804906A	1 x 2 x 16 AWG	9.9	BU/BN	66.7	125
3804907	2 x 2 x 16 AWG	13.8	BU/OG	105.2	191
3804907A	2 x 2 x 16 AWG	13.8	BU/BN	105.2	191

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Outer sheath colour	Core insulation colour	Copper index (kg/km)	Weight (kg/km)
RE-2X(ST)YRY						
3804891	1 x 2 x 18 AWG	12.5	OG	BU/OG	20.5	291
3804891A	1 x 2 x 18 AWG	12.5	BK	BU/OG	20.5	291
3804891B	1 x 2 x 18 AWG	12.5	OG	BU/BN	20.5	291
3804891C	1 x 2 x 18 AWG	12.5	BK	BU/BN	20.5	291
3804892	2 x 2 x 18 AWG	16.3	OG	BU/OG	45.9	570
3804892A	2 x 2 x 18 AWG	16.3	BK	BU/OG	45.9	570
3804892B	2 x 2 x 18 AWG	16.3	OG	BU/BN	45.9	570
3804892C	2 x 2 x 18 AWG	16.3	BK	BU/BN	45.9	570
RE-2X(ST)CYRY						
3804911	1 x 2 x 18 AWG	12.5	OG	BU/OG	40.0	307
3804911A	1 x 2 x 18 AWG	12.5	BK	BU/OG	40.0	307
3804911B	1 x 2 x 18 AWG	12.5	OG	BU/BN	40.0	307
3804911C	1 x 2 x 18 AWG	12.5	BK	BU/BN	40.0	307
3804912	2 x 2 x 18 AWG	16.3	OG	BU/OG	70.5	585
3804912A	2 x 2 x 18 AWG	16.3	BK	BU/OG	70.5	585
3804912B	2 x 2 x 18 AWG	16.3	OG	BU/BN	70.5	585
3804912C	2 x 2 x 18 AWG	16.3	BK	BU/BN	70.5	585

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.