

Instrumentation Cables



2MKABLO
yaşamla bağlantınız...

RD-Y(St)Y...Bd
 RD-H(St)H...Bd
 (VDE 0815)



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)	
Insulation	PVC or Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC)	
Core Colors	1. Pair Blue/Red	3. Pair Green/Brown
	2. Pair Gray/Yellow	4. Pair Black/White
Bundle	Two cores twisted to a pair (20 pitch / m), each bundle laid up with 4 pairs, each bundle is wrapped by numbered or colored polyester tape.	
Lay-up	Bundles laid-up in layers.	
Separator	Polyester tape	
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)	
Sheath RD-Y(St)Y...Bd	UV resistant, Flame retardant PVC (VDE 0207 YM1/HD 21.1.S4 Tm1. EN 50290-2) Gray (RAL 7000) or Blue (RAL 5015) [other colors upon request]	
	RD-H(St)H...Bd Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM 2, BS 7655 LTS1/LTS3) Gray (RAL 7000) or Blue (RAL 5015) [other colors upon request]	
Reference Standards	VDE 0815	

Technical and Electrical Properties (20°C)

Cross Section (mm²)	0.50	1.00
Conductor (Cu) (stranded)	7x0.30 mm	7x0.43 mm
Conductor Resistance (max.Ω/km)	36	18.1
Operating Voltage (max.)	300 V	
Test Voltage	Core/Core 1000 V	Core/Screen 1000 V
Capacitance (800 Hz) max.nF/km	100	Capacitance values may increase by 20% up to 4 pairs.
Capacitance Unbalanced (max.)	200pF / 100m	
Insulation Resistance(min. M.Ωxkm)	100	
Temperature Range	fixed -40°C.....+70°C,	during installation -5°C.....+50°C
Min. Bending Radius (fixed)	7.5 x Cable diameter	
Oxygen Index	PVC: Min. 29%, HFFR: Min. 34%	
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2	
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours	

* IEC 60754-1 and IEC/ EN 61034 Tests are also applied additionally for RD-H(St)H...Bd.

* For underground applications Yv (thickness VDE 0816 teil 2) or double sheath version YY are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

FireKab® RE-2G(St)H...CI

(CU/SI/OSCR/LSZH)



Construction

Conductor	Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Silicon Rubber (HD 22.1, BS 7655 E12)
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Lay-up	Pairs/ triples are stranded in layers.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω

Operating Voltage	300/500 V	
Test Voltage	Core/Core 2000 V	Core/Screen 1000 V
Capacitance (800 Hz) max.nF/km	95	Capacitance values may increase by 20% up to 4 pairs.
Capacitance Unbalanced (max.)	500pF / 500m	
Insulation Resistance(min. M.Ωxkm)	300	
Temperature Range	fixed -40°C.....+90°C,	during installation -5°C.....+50°C
Min. Bending Radius (fixed)	10 x Cable diameter	
Oxygen Index	Min. 34%	
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2	
Smoke Density	IEC / EN 61034, BS 7622, HD 606	
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267	
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours	
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (more than 20 mm cable diameter EN 50362 is applicable)	

* Armoured FireKab® RE-2G(ST)H...CI and FireKab® RE-2G(ST)H...CI version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.


FireKab® RE-2G(St)H-PiMF/TiMF...Cl (CU/SI/PSCR(TSCR)/OSCR/LSZH)

Construction

Conductor	Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Silicon Rubber (HD 22.1, BS 7655 EI2)
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Lay-up	Shielded Pairs/Triples are stranded in layers
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2 , BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300/500 V					
Test Voltage	Core/Cores 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	130	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	300					
Temperature Range	fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (more than 20 mm cable diameter EN 50362 is applicable)					

* Armoured FireKab® RE-2G(ST)H-SWAH-PiMF/TiMF...Cl and FireKab® RE-2G(ST)H-SWBH-PiMF/TiMF...Cl version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

FireKab® RE-2X(St)H...Cl (CU/MGT-XLPE/OSCR/LSZH)



Construction

Conductor	Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Mica tape + XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Lay-up	Pairs/ triples are stranded in layers.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage (max.)	300/500 V					
Test Voltage	Core/Core 2000V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (More than 20 mm cable diameter EN 50362 is applicable)					

* Armoured FireKab® RE-2X(ST)HSWAH...Cl and FireKab® RE-2X(ST)HSWBH...Cl version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.


FireKab® RE-2X(St)H-PiMF/TiMF...CI (CU/MGT-XLPE/PSCR(TSCR)/OSCR/LSZH)

Construction

Conductor	Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Mica tape+XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Lay-up	Shielded Pairs/ Triples are stranded in layers.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage (max.)	300/500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	115	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	fixed -40°C.....+90°C,			during installation -5°C.....+50°C		
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 30332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (More than 20 mm cable diameter EN 50362 is applicable)					

* Armoured FireKab® RE-2X(ST)H-SWAH-PiMF/TiMF..CI and FireKab® RE-2X(ST)H-SWBH-PiMF/TiMF..CI version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)H (CU/PE/OSCR/LSZH)
 RE-2X(St)H (CU/XLPE/OSCR/LSZH)



Construction

Conductor Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
 Insulation PE (VDE 0207 2Y11) or XLPE
 Core Colors Pair Black/White, numbered
 Triple Black/White/Red, numbered
 Communication Core 0.50 mm² XLPE insulated, orange (for more than one pair or triple cables)
 Lay-up Pairs/triples are stranded in layers with the communication core.
 Separator Polyester tape
 Overall Shielding AL-PES tape (with 7x0.30 mm tinned copper drain wire)
 Sheath Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015) (other colors upon request)
 Reference Standards BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω

Operating Voltage 300V / 500 V
 Test Voltage Core/Core 2000 V Core/Screen 1000 V
 Capacitance (800 Hz) max.nF/km 85 Capacitance values may increase by 20% up to 4 pairs.
 Capacitance Unbalanced (max.) 500pF / 500m
 Insulation Resistance(min. M.Ωxkm)5000
 Temperature Range PE : fixed -40°C.....+70°C, during installation -5°C.....+50°C
 XLPE : fixed -40°C.....+90°C, during installation -5°C.....+50°C
 Min. Bending Radius (fixed) 10 x Cable diameter
 Oxygen Index Min. 34%
 Flame Tests IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2
 Smoke Density IEC / EN 61034, BS 7622, HD 606
 Corrosive Gases Measurement IEC 60754-2, BS 6425, EN 50267
 Oil Resistance (IEC 60811) ASTM No 2 oil 70°C 4 hours



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
52Y00501-X	1x2x0.50	5.50	14	48
52Y00502-X	2x2x0.50	7.30	28	78
52Y00504-X	4x2x0.50	9.00	46	113
52Y00508-X	8x2x0.50	11.40	83	188
52Y00510-X	10x2x0.50	13.00	102	228
52Y00512-X	12x2x0.50	13.50	125	260
52Y00516-X	16x2x0.50	15.30	162	329
52Y00520-X	20x2x0.50	16.50	200	400
52Y00524-X	24x2x0.50	18.60	240	494

0.75 mm²

52Y00801-X	1x2x0.75	6.00	20	56
52Y00802-X	2x2x0.75	7.90	38	95
52Y00804-X	4x2x0.75	10.00	67	148
52Y00808-X	8x2x0.75	12.90	125	244
52Y00810-X	10x2x0.75	14.40	154	300
52Y00812-X	12x2x0.75	15.00	182	340
52Y00816-X	16x2x0.75	17.00	242	445
52Y00820-X	20x2x0.75	18.50	300	540
52Y00824-X	24x2x0.75	21.30	360	670

1.00 mm²

52Y01001-X	1x2x1.00	6.30	25	63
52Y01002-X	2x2x1.00	8.20	48	105
52Y01004-X	4x2x1.00	10.70	87	175
52Y01008-X	8x2x1.00	13.60	165	295
52Y01010-X	10x2x1.00	15.60	205	358
52Y01012-X	12x2x1.00	16.30	245	420
52Y01016-X	16x2x1.00	18.70	322	550
52Y01020-X	20x2x1.00	21.00	400	685

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.30 mm²				
52Y01301-X	1x2x1.30	7.00	30	75
52Y01302-X	2x2x1.30	9.40	60	128
52Y01304-X	4x2x1.30	12.40	110	222
52Y01308-X	8x2x1.30	15.60	208	375
52Y01312-X	12x2x1.30	19.50	310	560
52Y01316-X	16x2x1.30	21.50	410	718
52Y01320-X	20x2x1.30	23.60	510	882

1.50 mm²

52Y01501-X	1x2x1.50	7.30	33	78
52Y01502-X	2x2x1.50	9.70	66	136
52Y01504-X	4x2x1.50	12.60	125	230
52Y01508-X	8x2x1.50	15.70	233	400
52Y01510-X	10x2x1.50	18.80	293	515
52Y01512-X	12x2x1.50	19.60	352	595
52Y01516-X	16x2x1.50	22.20	450	785
52Y01520-X	20x2x1.50	25.50	580	1.020

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept.for the 2.5 mm².

* All cross sections are also available triple versions. Please contact our sales dept.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)H-PiMF/TiMF (CU/PE/PSCR(TSCR)/OSCR/LSZH)
 RE-2X(St)H-PiMF/TiMF (CU/XLPE/PSCR(TSCR)/OSCR/LSZH)



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PE (EN 50290 -2 / VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015) [other colors upon request]
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Kesit (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	115	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	PE : fixed -40°C.....+70°C,	during installation -5°C.....+50°C				
	XLPE : fixed -40°C.....+90°C,	during installation -5°C.....+50°C				
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034 , BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					



PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
52Y20502-X	2x2x0.50	8.20	35	90
52Y20504-X	4x2x0.50	10.50	58	140
52Y20508-X	8x2x0.50	13.15	105	238
52Y20510-X	10x2x0.50	15.00	130	295
52Y20512-X	12x2x0.50	15.90	153	342
52Y20516-X	16x2x0.50	18.20	202	455
52Y20520-X	20x2x0.50	19.90	252	552
52Y20524-X	24x2x0.50	21.80	302	664
0.75 mm²				
52Y20802-X	2x2x0.75	9.30	45	109
52Y20804-X	4x2x0.75	11.90	77	184
52Y20808-X	8x2x0.75	14.70	150	315
52Y20810-X	10x2x0.75	17.00	180	370
52Y20812-X	12x2x0.75	18.30	215	440
52Y20816-X	16x2x0.75	20.10	280	563
52Y20820-X	20x2x0.75	21.90	350	678
52Y20824-X	24x2x0.75	24.00	419	792
1.00 mm²				
52Y21002-X	2x2x1.00	9.40	54	120
52Y21004-X	4x2x1.00	12.40	96	208
52Y21008-X	8x2x1.00	15.35	185	348
52Y21010-X	10x2x1.00	17.50	225	440
52Y21012-X	12x2x1.00	19.10	272	522
52Y21016-X	16x2x1.00	22.00	360	685
52Y21024-X	24x2x1.00	27.20	538	995

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.30 mm²				
52Y21302-X	2x2x1.30	11.00	65	154
52Y21304-X	4x2x1.30	14.20	120	260
52Y21308-X	8x2x1.30	17.70	230	444
52Y21312-X	12x2x1.30	21.50	340	640
52Y21316-X	16x2x1.30	24.45	455	860
52Y21324-X	24x2x1.30	29.80	655	1.195
1.50 mm²				
52Y21502-X	2x2x1.50	11.10	72	158
52Y21504-X	4x2x1.50	14.50	135	275
52Y21508-X	8x2x1.50	18.50	253	465
52Y21512-X	12x2x1.50	22.10	380	699
52Y21516-X	16x2x1.50	25.30	502	889
52Y21524-X	24x2x1.50	31.80	750	1.330

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept. for the 2.5 mm².

* All cross sections are also available triple versions. Please contact our sales dept.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)HSAWAH (CU/PE/OSCR/LSZH/SWA/LSZH)
 RE-2X(St)HSAWAH (CU/XLPE/OSCR/LSZH/SWA/LSZH)



Construction

Conductor Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
 Insulation PE (EN 50290 -2 / VDE 0207 2Y11) or XLPE
 Core Colors Pair Black/White, numbered
 Triple Black/White/Red, numbered
 Communication Core 0.50 mm² XLPE insulated, orange (for more than one pair or triple cables)
 Lay-up Pairs/triples are stranded in layers with the communication core.
 Separator Polyester tape
 Overall Shielding AL-PES tape (with 7x0.30 mm tinned copper drain wire)
 Inner Sheath Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2 BS 7655 LTS1/LTS3), Black
 Armour Round galvanized steel wire (Min. Diameter 0.90 mm)
 Sheath Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015) [other colors upon request]
 Reference Standards BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	85	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	PE : fixed -40°C.....+70°C,			during installation -5°C.....+50°C		
	XLPE : fixed -40°C.....+90°C,			during installation -5°C.....+50°C		
Min. Bending Radius (fixed)	12 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
52Y40501-X	1x2x0.50	9.50	14	230
52Y40502-X	2x2x0.50	11.55	28	310
52Y40504-X	4x2x0.50	13.50	46	415
52Y40508-X	8x2x0.50	16.50	83	529
52Y40510-X	10x2x0.50	17.80	102	625
52Y40512-X	12x2x0.50	18.50	125	678
52Y40516-X	16x2x0.50	21.60	162	955
52Y40520-X	20x2x0.50	22.70	200	1.055
52Y40524-X	24x2x0.50	25.70	240	1.405

0.75 mm²

52Y40801-X	1x2x0.75	10.50	20	250
52Y40802-X	2x2x0.75	12.50	38	340
52Y40804-X	4x2x0.75	14.60	67	455
52Y40808-X	8x2x0.75	18.00	125	708
52Y40810-X	10x2x0.75	20.00	154	840
52Y40812-X	12x2x0.75	20.70	182	928
52Y40816-X	16x2x0.75	23.60	242	1.250
52Y40820-X	20x2x0.75	25.50	300	1.350
52Y40824-X	24x2x0.75	29.10	360	1.720

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.00 mm²				
52Y41001-X	1x2x1.00	10.20	25	280
52Y41002-X	2x2x1.00	13.00	48	400
52Y41004-X	4x2x1.00	15.50	87	488
52Y41008-X	8x2x1.00	18.20	165	750
52Y41010-X	10x2x1.00	21.90	205	990
52Y41012-X	12x2x1.00	22.80	245	1.085
52Y41016-X	16x2x1.00	25.90	322	1.300
52Y41020-X	20x2x1.00	28.00	385	1.520

1.50 mm²

52Y41501-X	1x2x1.50	11.50	33	299
52Y41502-X	2x2x1.50	14.40	66	442
52Y41504-X	4x2x1.50	17.20	125	625
52Y41508-X	8x2x1.50	21.90	238	1.021
52Y41510-X	10x2x1.50	25.80	293	1.400
52Y41512-X	12x2x1.50	27.00	352	1.500
52Y41516-X	16x2x1.50	30.60	465	1.980
52Y41520-X	20x2x1.50	32.50	580	2.220

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)HSAWAH-PiMF/TiMF (CU/PE/PSCR(TSCR)/OSCR/LSZH/SWA/LSZH)
 RE-2X(St)HSAWAH-PiMF/TiMF (CU/XLPE/PSCR(TSCR)/OSCR/LSZH/SWA/LSZH)



Construction

Conductor Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
 Insulation PE (EN 50290 -2 / VDE 0207 2Y11) or XLPE
 Core Colors Pair Black/White, numbered
 Triple Black/White/Red, numbered
 Individual Separator Polyester tape
 Individual Shielding AL-PES tape (with 0.60 mm tinned copper drain wire)
 Communication Core 0.50 mm² XLPE insulated, orange (for more than one pair or triple cables)
 Lay-up Shielded Pairs/Triples are stranded in layers with the communication core
 Separator Polyester tape
 Overall Shielding AL-PES tape (with 7x0.30 mm tinned copper drain wire)
 Inner Sheath Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1/LTS3), Black
 Armour Round galvanized steel wire (Min. Diameter 0.90 mm)
 Sheath Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2 , BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015) [other colors upon request]
 Reference Standards BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω

Operating Voltage 300V / 500 V
 Test Voltage Core/Core 2000 V Core/Screen 1000 V
 Capacitance (800 Hz) max.nF/km 115 Capacitance values may increase by 20% up to 4 pairs.
 Capacitance Unbalanced (max.) 500pF / 500m
 Insulation Resistance(min. M.Ωxkm)5000
 Temperature Range PE : fixed -40°C.....+70°C, during installation -5°C.....+50°C
 XLPE : fixed -40°C.....+90°C, during installation -5°C.....+50°C
 Min. Bending Radius (fixed) 12 x Cable diameter
 Oxygen Index Min. 34%
 Flame Tests IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2
 Smoke Density IEC / EN 61034, BS 7622, HD 606
 Corrosive Gases Measurement IEC 60754-2, BS 6425, EN 50267
 Oil Resistance (IEC 60811) ASTM No 2 oil 70°C 4 hours



PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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0.50 mm²

52Y60502-X	2x2x0.50	12.20	35	360
52Y60504-X	4x2x0.50	14.80	58	470
52Y60508-X	8x2x0.50	18.00	105	610
52Y60510-X	10x2x0.50	21.00	130	850
52Y60512-X	12x2x0.50	22.00	153	960
52Y60516-X	16x2x0.50	24.20	202	1.200
52Y60520-X	20x2x0.50	25.50	252	1.350
52Y60524-X	24x2x0.50	30.50	302	1.740

0.75 mm²

52Y60802-X	2x2x0.75	13.50	45	375
52Y60804-X	4x2x0.75	17.00	77	502
52Y60808-X	8x2x0.75	19.50	150	840
52Y60810-X	10x2x0.75	22.50	180	980
52Y60812-X	12x2x0.75	24.00	215	1.100
52Y60816-X	16x2x0.75	25.60	280	1.400
52Y60820-X	20x2x0.75	29.50	350	1.810
52Y60824-X	24x2x0.75	32.00	419	2.150

1.00 mm²

52Y61002-X	2x2x1.00	13.80	54	400
52Y61004-X	4x2x1.00	17.00	96	550
52Y61008-X	8x2x1.00	21.00	185	910
52Y61010-X	10x2x1.00	24.20	225	1.156
52Y61012-X	12x2x1.00	25.80	272	1.290
52Y61016-X	16x2x1.00	29.80	360	1.711
52Y61020-X	20x2x1.00	31.00	450	2.080
52Y61024-X	24x2x1.00	35.80	538	2.270

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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1.30 mm²

52Y61302-X	2x2x1.30	15.20	65	480
52Y61304-X	4x2x1.30	19.40	120	685
52Y61308-X	8x2x1.30	24.70	230	1.131
52Y61310-X	10x2x1.30	28.80	288	1.550
52Y61312-X	12x2x1.30	30.30	340	1.805
52Y61316-X	16x2x1.30	33.80	455	2.110
52Y61320-X	20x2x1.30	35.80	570	2.650
52Y61324-X	24x2x1.30	38.70	680	3.130

1.50 mm²

52Y61502-X	2x2x1.50	16.00	72	490
52Y61504-X	4x2x1.50	20.50	135	850
52Y61508-X	8x2x1.50	25.00	258	1.250
52Y61510-X	10x2x1.50	29.00	318	1.750
52Y61512-X	12x2x1.50	30.00	380	1.890
52Y61516-X	16x2x1.50	33.50	502	2.228
52Y61520-X	20x2x1.50	36.50	625	2.830
52Y61524-X	24x2x1.50	40.20	750	3.262

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)HSWBH (CU/PE/OSCR/LSZH/SWB/LSZH)
 RE-2X(St)HSWBH (CU/XLPE/OSCR/LSZH/SWB/LSZH)



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/ triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1/LTS3), Black
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	Halogen free flame retardant compound (HFFR /LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1/LTS3), Black, Blue (RAL 5015) (other colors upon request.)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	85	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	PE : fixed -40°C.....+70°C,	during installation -5°C.....+50°C				
	XLPE : fixed -40°C.....+90°C,	during installation -5°C.....+50°C				
Min. Bending Radius (fixed)	12 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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0.50 mm²

52Y50501-X	1x2x0.50	8.90	14	126
52Y50502-X	2x2x0.50	10.70	28	177
52Y50504-X	4x2x0.50	12.85	46	242
52Y50508-X	8x2x0.50	15.50	83	354
52Y50510-X	10x2x0.50	17.00	102	424
52Y50512-X	12x2x0.50	17.80	125	465
52Y50516-X	16x2x0.50	20.00	162	588
52Y50520-X	20x2x0.50	21.50	200	699
52Y50524-X	24x2x0.50	23.70	240	850

0.75 mm²

52Y50801-X	1x2x0.75	9.00	20	140
52Y50802-X	2x2x0.75	11.00	38	205
52Y50804-X	4x2x0.75	13.50	67	288
52Y50808-X	8x2x0.75	17.00	125	458
52Y50810-X	10x2x0.75	19.70	154	615
52Y50812-X	12x2x0.75	20.00	182	650
52Y50816-X	16x2x0.75	22.50	242	801
52Y50820-X	20x2x0.75	24.00	300	905

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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1.00 mm²

52Y51001-X	1x2x1.00	9.70	25	155
52Y51002-X	2x2x1.00	11.90	48	240
52Y51004-X	4x2x1.00	14.20	87	350
52Y51008-X	8x2x1.00	18.00	165	540
52Y51010-X	10x2x1.00	20.00	205	665
52Y51012-X	12x2x1.00	21.80	245	805
52Y51016-X	16x2x1.00	24.10	322	995
52Y51020-X	20x2x1.00	25.90	385	1.150

1.50 mm²

52Y51501-X	1x2x1.50	11.00	33	190
52Y51502-X	2x2x1.50	13.50	66	290
52Y51504-X	4x2x1.50	16.50	125	474
52Y51508-X	8x2x1.50	21.00	238	768
52Y51510-X	10x2x1.50	23.80	293	930
52Y51512-X	12x2x1.50	25.10	352	1.020
52Y51516-X	16x2x1.50	28.80	465	1.310
52Y51520-X	20x2x1.50	30.70	580	1.515

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-2Y(St)HSWBH-PiMF/TiMF (CU/PE/PSCR(TSCR)/OSCR/LSZH/SWB/LSZH)
 RE-2X(St)HSWBH-PiMF/TiMF (CU/XLPE/PSCR(TSCR)/OSCR/LSZH/SWB/LSZH)



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/ Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1/LTS3), Black
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	Halogen free flame retardant compound (HFFR/LSZH/LSOH/FRNC) (EN 50290 -2 / VDE 0207 HM2, BS 7655 LTS1 / LTS3), Black, Blue (RAL 5015) [other colors upon request]
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V			Core/Screen 1000 V		
Capacitance (800 Hz) max.nF/km	115	Capacitance values may increase by 20% up to 4 pairs.				
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	5000					
Temperature Range	PE	fixed -40°C.....+70°C,		during installation -5°C.....+50°C		
	XLPE	fixed -40°C.....+90°C,		during installation -5°C.....+50°C		
Min. Bending Radius (fixed)	12 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
52Y80502-X	2x2x0.50	11.80	35	225
52Y80504-X	4x2x0.50	14.00	58	300
52Y80508-X	8x2x0.50	17.00	105	475
52Y80510-X	10x2x0.50	19.70	130	575
52Y80512-X	12x2x0.50	21.00	153	670
52Y80516-X	16x2x0.50	23.40	202	840
52Y80520-X	20x2x0.50	25.70	252	1.010
52Y80524-X	24x2x0.50	28.40	302	1.190
0.75 mm²				
52Y80802-X	2x2x0.75	12.80	45	255
52Y80804-X	4x2x0.75	15.00	77	355
52Y80808-X	8x2x0.75	17.50	150	535
52Y80810-X	10x2x0.75	21.70	180	695
52Y80812-X	12x2x0.75	22.80	215	830
52Y80816-X	16x2x0.75	26.00	280	1.010
52Y80820-X	20x2x0.75	28.00	350	1.188
52Y80824-X	24x2x0.75	30.80	419	1.408
1.00 mm²				
52Y81002-X	2x2x1.00	13.00	54	275
52Y81004-X	4x2x1.00	16.00	96	415
52Y81008-X	8x2x1.00	20.00	185	606
52Y81010-X	10x2x1.00	23.00	225	820
52Y81012-X	12x2x1.00	24.00	272	912
52Y81016-X	16x2x1.00	27.50	360	1.145
52Y81020-X	20x2x1.00	29.00	450	1.295
52Y81024-X	24x2x1.00	32.50	538	1.648

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.30 mm²				
52Y81302-X	2x2x1.30	14.70	65	305
52Y81304-X	4x2x1.30	18.00	120	470
52Y81308-X	8x2x1.30	22.70	230	810
52Y81310-X	10x2x1.30	25.50	288	992
52Y81312-X	12x2x1.30	27.50	340	1.130
52Y81316-X	16x2x1.30	31.00	455	1.411
52Y81320-X	20x2x1.30	33.90	570	1.705
52Y81324-X	24x2x1.30	36.50	680	2.050
1.50 mm²				
52Y81502-X	2x2x1.50	15.00	72	345
52Y81504-X	4x2x1.50	19.20	135	540
52Y81508-X	8x2x1.50	23.50	258	800
52Y81510-X	10x2x1.50	26.00	318	995
52Y81512-X	12x2x1.50	27.80	380	1.198
52Y81516-X	16x2x1.50	32.00	502	1.580
52Y81520-X	20x2x1.50	34.00	625	1.782
52Y81524-X	24x2x1.50	38.00	750	2.185

X: Sheath Colors (0:Blue, 1:Black, 2:Gray, 3:Orange)

Y: Insulation Type (0:PE, 2:XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

FireKab® RE-3G(St)H(ö)...Cl (CU/MGT-EPR/OSCR/LSZH(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Mica tape + EPR
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Lay-up	Pairs/ triples are stranded in layers.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant, oil and fuel resistant compound (HFFR /LSZH/LSOH/FRNC) (HD 22.1 EM8 and Ei5, IEC 60092-359 SHF2, Cenelec 50264 E101...E104) Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25µH/ Ω	25µH/ Ω	25µH/ Ω	40µH/ Ω	40µH/ Ω	60µH/ Ω
Operating Voltage (max.)	300/500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	90 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	500					
Temperature Range	fixed -40°C.....+90°C, during installation -5°C.....+50°C					
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Outer Sheath Chemical Resistance (IEC 60811)	IRM 902 oil immersion test:168 hours at 100°C , IRM 903 fuel immersion test:168 hours at 70°C , Noxalic acid and Sodium hydroxide solution immersion tests: 168 hours at 23°C.					
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (more than 20 mm cable diameter EN 50362 is applicable)					

* Armoured FireKab® RE-3G(ST)HWAH(ö)...Cl and FireKab® RE-3G(ST)HSWBH(ö)...Cl version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1 instead class 2) versions are also available.



FireKab® RE-3G(St)H(ö)-PiMF/TiMF...Cl (CU/MGT-EPR/PSCR(TSCR)/OSCR/LSZH)

**Construction**

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	Mica tape + EPR
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Lay-up	Shielded Pairs/ Tripes are stranded in layers.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	Halogen free flame retardant, oil and fuel resistant compound (HFFR/LSZH/LSOH/FRNC)(HD 22.1 EM8 and E15, IEC 60092-359 SHF2, Cenelec 50264 E101...E104) Black, Blue (RAL 5015), Orange (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu)(stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage (max.)	300/500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	120 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance (min. M.Ωxkm)	500					
Temperature Range	fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 34%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Smoke Density	IEC / EN 61034, BS 7622, HD 606					
Corrosive Gases Measurement	IEC 60754-2, BS 6425, EN 50267					
Outer Sheath Chemical Resistance (IEC 60811)	IRM 902 oil immersion test:168 hours at 100°C , IRM 903 fuel immersion test:168 hours at 70°C, Noxalic acid and Sodium hydroxide solution immersion tests: 168 hours at 23°C.					
Fire Resistant Tests	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30 (More than 20 mm cable diameter EN 50362 is applicable)					

* Armoured FireKab® RE-3G(ST)HSWAH(ö)-PiMF/TiMF.Cl and FireKab® RE-3G(ST)HSWBH(ö)-PiMF/TiMF..Cl version are also in our production range.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)Y (CU/PVC/OSCR/PVC)
 RE-2Y(St)Y (CU/PE/OSCR/PVC)
 RE-2X(St)Y (CU/XLPE/OSCR/PVC)



Construction

Conductor Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
 Insulation PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
 Core Colors Pair Black/White, numbered
 Triple Black/White/Red, numbered
 Communication Core 0.50 mm² XLPE insulated, orange (for more than one pair or triple cables)
 Lay-up Pairs/triples are stranded in layers with the communication core.
 Separator Polyester tape
 Overall Shielding AL-PES tape (with 7x0.30 mm tinned copper drain wire)
 Sheath UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
 Reference Standards BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km pairs.	PVC Insulation:170		PE Insulation:85	XLPE Insulation:85	Capacitance values may increase by 20% up to 4	
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance (min. M.Ωxkm)	PVC:100	PE: 5000	XLPE: 5000			
Temperature Range	PVC and PE : XLPE :		fixed -40°C.....+70°C, fixed -40°C.....+90°C,		during installation -5°C.....+50°C during installation -5°C.....+50°C	
Min. Bending Radius (fixed)	7.5 x Cable diameter					
Oxygen Index	Min.29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y00501-X	1x2x0.50	5.50	14	45
50Y00502-X	2x2x0.50	7.30	28	75
50Y00504-X	4x2x0.50	9.00	46	110
50Y00508-X	8x2x0.50	11.40	83	180
50Y00510-X	10x2x0.50	13.00	102	220
50Y00512-X	12x2x0.50	13.50	125	250
50Y00516-X	16x2x0.50	15.30	162	320
50Y00520-X	20x2x0.50	16.50	200	380
50Y00524-X	24x2x0.50	18.60	240	480
0.75 mm²				
50Y00801-X	1x2x0.75	6.00	20	54
50Y00802-X	2x2x0.75	7.90	38	89
50Y00804-X	4x2x0.75	10.00	67	139
50Y00808-X	8x2x0.75	12.90	125	230
50Y00810-X	10x2x0.75	14.40	154	285
50Y00812-X	12x2x0.75	15.00	182	330
50Y00816-X	16x2x0.75	17.00	242	423
50Y00820-X	20x2x0.75	18.50	300	532
50Y00824-X	24x2x0.75	21.30	360	645
1.00 mm²				
50Y01001-X	1x2x1.00	6.30	25	61
50Y01002-X	2x2x1.00	8.20	48	100
50Y01004-X	4x2x1.00	10.70	87	166
50Y01008-X	8x2x1.00	13.60	165	280
50Y01010-X	10x2x1.00	15.60	205	350
50Y01012-X	12x2x1.00	16.30	245	410
50Y01016-X	16x2x1.00	18.70	322	540
50Y01020-X	20x2x1.00	21.00	400	668

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
50Y01301-X	1x2x1.30	7.00	30	72
50Y01302-X	2x2x1.30	9.40	60	124
50Y01304-X	4x2x1.30	12.40	110	215
50Y01308-X	8x2x1.30	15.60	208	365
50Y01310-X	10x2x1.30	18.50	260	470
50Y01312-X	12x2x1.30	19.50	310	545
50Y01316-X	16x2x1.30	21.50	410	704
50Y01320-X	20x2x1.30	23.60	510	860
1.50 mm²				
50Y01501-X	1x2x1.50	7.30	33	75
50Y01502-X	2x2x1.50	9.70	66	130
50Y01504-X	4x2x1.50	12.60	125	222
50Y01508-X	8x2x1.50	15.70	238	390
50Y01510-X	10x2x1.50	18.80	293	499
50Y01512-X	12x2x1.50	19.60	352	588
50Y01516-X	16x2x1.50	22.20	450	772
50Y01520-X	20x2x1.50	25.50	580	1.001
2.50 mm²				
50Y02501-X	1x2x2.5	115	55	9.00
50Y02502-X	2x2x2.5	196	100	12.20
50Y02504-X	4x2x2.5	339	191	15.60
50Y02508-X	8x2x2.5	636	375	20.00
50Y02512-X	12x2x2.5	918	560	24.00
50Y02516-X	16x2x2.5	1.196	740	28.00

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* All cross sections are also available triple versions, there is black PE sheathed version too. Please contact our sales dept. for detailed information.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)Y(ö)	(CU/PVC/OSCR/PVC(ö))
RE-2Y(St)Y(ö)	(CU/PE/OSCR/PVC(ö))
RE-2X(St)Y(ö)	(CU/XLPE/OSCR/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC /EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant. NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100 PE: 5000 XLPE: 5000					
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	7.5 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y00501-X	1x2x0.50	5.50	14	45
51Y00502-X	2x2x0.50	7.30	28	75
51Y00504-X	4x2x0.50	9.00	46	110
51Y00508-X	8x2x0.50	11.40	83	180
51Y00510-X	10x2x0.50	13.00	102	220
51Y00512-X	12x2x0.50	13.50	125	250
51Y00516-X	16x2x0.50	15.30	162	320
51Y00520-X	20x2x0.50	16.50	200	380
51Y00524-X	24x2x0.50	18.60	240	480
0.75 mm²				
51Y00801-X	1x2x0.75	6.00	20	54
51Y00802-X	2x2x0.75	7.90	38	88
51Y00804-X	4x2x0.75	10.00	67	139
51Y00808-X	8x2x0.75	12.90	125	230
51Y00810-X	10x2x0.75	14.40	154	285
51Y00812-X	12x2x0.75	15.00	182	330
51Y00816-X	16x2x0.75	17.00	242	423
51Y00820-X	20x2x0.75	18.50	300	532
51Y00824-X	24x2x0.75	21.30	360	645
1.00 mm²				
51Y01001-X	1x2x1.00	6.30	25	61
51Y01002-X	2x2x1.00	8.20	48	100
51Y01004-X	4x2x1.00	10.70	87	166
51Y01008-X	8x2x1.00	13.60	165	280
51Y01010-X	10x2x1.00	15.60	205	350
51Y01012-X	12x2x1.00	16.30	245	410
51Y01016-X	16x2x1.00	18.70	322	540
51Y01020-X	20x2x1.00	21.00	400	668

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
51Y01301-X	1x2x1.30	7.00	30	72
51Y01302-X	2x2x1.30	9.40	60	124
51Y01304-X	4x2x1.30	12.40	110	215
51Y01308-X	8x2x1.30	15.60	208	365
51Y01312-X	12x2x1.30	19.50	310	543
51Y01316-X	16x2x1.30	21.50	410	704
51Y01320-X	20x2x1.30	23.60	510	860
1.50 mm²				
51Y01501-X	1x2x1.50	7.30	33	75
51Y01502-X	2x2x1.50	9.70	66	130
51Y01504-X	4x2x1.50	12.60	125	222
51Y01508-X	8x2x1.50	15.70	233	390
51Y01510-X	10x2x1.50	18.80	293	499
51Y01512-X	12x2x1.50	19.60	352	588
51Y01516-X	16x2x1.50	22.20	450	772
51Y01520-X	20x2x1.50	25.50	580	1.001

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0: PVC, 2: PE, 4 : XLPE)

* Please contact our sales dept.for the 2.5 mm².

* All cross sections are also available triple versions. Please contact our sales dept.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-Y(St)Y(ö)-PiMF / TiMF	(CU/PVC/PSCR(TSCR)/OSCR/PVC(ö))
RE-2Y(St)Y(ö)-PiMF / TiMF	(CU/PE/PSCR(TSCR)/OSCR/PVC(ö))
RE-2X(St)Y(ö)-PiMF / TiMF	(CU/XLPE/PSCR(TSCR)/OSCR/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100 PE: 5000 XLPE: 5000					
Temperature Range	PVC and PE: fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	7.5 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y20502-X	2x2x0.50	8.20	35	88
51Y20504-X	4x2x0.50	10.50	58	138
51Y20508-X	8x2x0.50	13.15	105	230
51Y20510-X	10x2x0.50	15.00	130	275
51Y20512-X	12x2x0.50	15.90	153	325
51Y20516-X	16x2x0.50	18.20	202	429
51Y20520-X	20x2x0.50	19.90	252	520
51Y20524-X	24x2x0.50	21.80	302	619
0.75 mm²				
51Y20802-X	2x2x0.75	9.30	45	105
51Y20804-X	4x2x0.75	11.90	77	175
51Y20808-X	8x2x0.75	14.70	150	300
51Y20810-X	10x2x0.75	17.00	180	373
51Y20812-X	12x2x0.75	18.30	215	405
51Y20816-X	16x2x0.75	20.10	280	550
51Y20820-X	20x2x0.75	21.90	350	662
51Y20824-X	24x2x0.75	24.00	419	780
1.00 mm²				
51Y21002-X	2x2x1.00	9.40	54	115
51Y21004-X	4x2x1.00	12.40	96	202
51Y21008-X	8x2x1.00	15.35	185	340
51Y21010-X	10x2x1.00	16.20	225	410
51Y21012-X	12x2x1.00	19.10	272	510
51Y21016-X	16x2x1.00	22.00	360	670
51Y21024-X	24x2x1.00	27.20	538	970

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
51Y21302-X	2x2x1.30	11.00	65	150
51Y21304-X	4x2x1.30	14.20	120	250
51Y21308-X	8x2x1.30	17.70	230	425
51Y21310-X	10x2x1.30	20.70	288	542
51Y21312-X	12x2x1.30	21.50	340	621
51Y21316-X	16x2x1.30	24.45	455	845
51Y21324-X	24x2x1.30	29.80	655	1.150
1.50 mm²				
51Y21502-X	2x2x1.50	11.10	72	155
51Y21504-X	4x2x1.50	14.50	135	255
51Y21508-X	8x2x1.50	18.50	253	446
51Y21510-X	10x2x1.50	21.20	313	585
51Y21512-X	12x2x1.50	22.10	380	682
51Y21516-X	16x2x1.50	25.30	502	875
51Y21520-X	20x2x1.50	28.00	625	1.100
51Y21524-X	24x2x1.50	31.80	750	1.300

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0: PVC, 2: PE, 4 : XLPE)

* Please contact our sales dept.for the 2.5 mm².

* All cross sections are also available triple versions. Please contact our sales dept.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)Y-PiMF / TiMF (CU/PVC/PSCR(TSCR)/OSCR/PVC)
 RE-2Y(St)Y-PiMF / TiMF (CU/PE/PSCR(TSCR)/OSCR/PVC)
 RE-2X(St)Y-PiMF / TiMF (CU/XLPE/PSCR(TSCR)/OSCR/PVC)



Construction

Conductor Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
 Insulation PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
 Core Colors Pair Black/White, numbered
 Triple Black/White/Red, numbered
 Individual Separator Polyester tape
 Individual Shielding AL-PES tape (with 0.60 mm tinned copper drain wire)
 Communication Core 0.50 mm² XLPE insulated, orange (for more than one pair or triple cables)
 Lay-up Shielded Pairs/Triples are stranded in layers with the communication core
 Separator Polyester tape
 Overall Shielding AL-PES tape (with 7x0.30 mm tinned copper drain wire)
 Sheath UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
 Reference Standards BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE: fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	7.5 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y20502-X	2x2x0.50	8.20	35	88
50Y20504-X	4x2x0.50	10.50	58	138
50Y20508-X	8x2x0.50	13.15	105	230
50Y20510-X	10x2x0.50	15.00	130	275
50Y20512-X	12x2x0.50	15.90	153	325
50Y20516-X	16x2x0.50	18.20	202	429
50Y20520-X	20x2x0.50	19.90	252	520
50Y20524-X	24x2x0.50	21.80	302	619
0.75 mm²				
50Y20802-X	2x2x0.75	9.30	45	105
50Y20804-X	4x2x0.75	11.90	77	175
50Y20808-X	8x2x0.75	14.70	150	300
50Y20810-X	10x2x0.75	17.00	180	355
50Y20812-X	12x2x0.75	18.30	215	405
50Y20816-X	16x2x0.75	20.10	280	550
50Y20820-X	20x2x0.75	21.90	350	662
50Y20824-X	24x2x0.75	24.00	419	780
1.00 mm²				
50Y21002-X	2x2x1.00	9.40	54	115
50Y21004-X	4x2x1.00	12.40	96	202
50Y21008-X	8x2x1.00	15.35	185	340
50Y21010-X	10x2x1.00	17.50	225	415
50Y21012-X	12x2x1.00	19.10	272	510
50Y21016-X	16x2x1.00	22.00	360	670
50Y21024-X	24x2x1.00	27.20	538	970

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
50Y21302-X	2x2x1.30	11.00	65	150
50Y21304-X	4x2x1.30	14.20	120	250
50Y21308-X	8x2x1.30	17.70	230	425
50Y21310-X	10x2x1.30	20.70	288	542
50Y21312-X	12x2x1.30	21.50	340	621
50Y21316-X	16x2x1.30	24.45	455	845
50Y21324-X	24x2x1.30	29.80	655	1.150
1.50 mm²				
50Y21502-X	2x2x1.50	11.10	72	155
50Y21504-X	4x2x1.50	14.50	135	255
50Y21508-X	8x2x1.50	18.50	253	446
50Y21510-X	10x2x1.50	21.20	313	585
50Y21512-X	12x2x1.50	22.10	380	682
50Y21516-X	16x2x1.50	25.30	502	875
50Y21520-X	20x2x1.50	28.00	625	1.100
50Y21524-X	24x2x1.50	31.80	750	1.300

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept.for the 2.5 mm².

* All cross sections are also available triple versions (T1MF), there is black PE sheathed version too. Please contact our sales dept. for detailed information.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

- RE-Y(St)YSWAY (CU/PVC/OSCR/PVC/SWA/PVC)
- RE-2Y(St)YSWAY (CU/PE/OSCR/PVC/SWA/PVC)
- RE-2X(St)YSWAY (CU/XLPE/OSCR/PVC/SWA/PVC)



Construction

Conductor	Plain annealed stranded copper wires (IEC/ EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE Insulation, orange (for more than one pair or triple cables)
Lay-up	Pairs/triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (VDE 0207 YM1/HD 21.1.S4 TM1, EN 50290-2)
Armour	Round galvanized steel wire (Min. Diameter 0.90 mm)
Sheath	UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y40501-X	1x2x0.50	9.50	14	223
50Y40502-X	2x2x0.50	11.55	28	298
50Y40504-X	4x2x0.50	13.50	46	390
50Y40508-X	8x2x0.50	16.50	83	525
50Y40510-X	10x2x0.50	17.80	102	605
50Y40512-X	12x2x0.50	18.50	125	660
50Y40516-X	16x2x0.50	21.60	162	940
50Y40520-X	20x2x0.50	22.70	200	1.005
50Y40524-X	24x2x0.50	25.70	240	1.180
0.75 mm²				
50Y40801-X	1x2x0.75	10.50	20	244
50Y40802-X	2x2x0.75	12.50	38	330
50Y40804-X	4x2x0.75	14.60	67	440
50Y40808-X	8x2x0.75	18.00	125	650
50Y40810-X	10x2x0.75	20.00	154	840
50Y40812-X	12x2x0.75	20.70	182	901
50Y40816-X	16x2x0.75	23.60	242	1.150
50Y40820-X	20x2x0.75	25.50	300	1.231
50Y40824-X	24x2x0.75	29.10	360	1.650

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.00 mm²				
50Y41001-X	1x2x1.00	10.20	25	263
50Y41002-X	2x2x1.00	13.00	48	372
50Y41004-X	4x2x1.00	15.50	87	470
50Y41008-X	8x2x1.00	18.20	165	676
50Y41010-X	10x2x1.00	21.90	205	950
50Y41012-X	12x2x1.00	22.80	245	1.005
50Y41016-X	16x2x1.00	25.90	322	1.250
50Y41020-X	20x2x1.00	28.00	385	1.431
1.50 mm²				
50Y41501-X	1x2x1.50	11.50	33	290
50Y41502-X	2x2x1.50	14.40	66	430
50Y41504-X	4x2x1.50	17.20	125	600
50Y41508-X	8x2x1.50	21.90	238	1.001
50Y41510-X	10x2x1.50	25.80	293	1.250
50Y41512-X	12x2x1.50	27.00	352	1.350
50Y41516-X	16x2x1.50	30.60	465	1.810
50Y41520-X	20x2x1.50	32.50	580	2.120

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* Black PE sheathed or PE inner sheathed type also available.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)YSWAY(ö)	(CU/PVC/OSCR/PVC/SWA/PVC(ö))
RE-2Y(St)YSWAY (ö)	(CU/PE/OSCR/PVC/SWA/PVC(ö))
RE-2X(St)YSWAY (ö)	(CU/XLPE/OSCR/PVC/SWA/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 Tm1, EN 50290-2)
Armour	Round galvanized steel wire (Min. Diameter 0.90 mm)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100 PE: 5000 XLPE: 5000					
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y40501-X	1x2x0.50	9.50	14	223
51Y40502-X	2x2x0.50	11.55	28	298
51Y40504-X	4x2x0.50	13.50	46	390
51Y40508-X	8x2x0.50	16.50	83	525
51Y40510-X	10x2x0.50	17.80	102	605
51Y40512-X	12x2x0.50	18.50	125	660
51Y40516-X	16x2x0.50	21.60	162	940
51Y40520-X	20x2x0.50	22.70	200	1.005
51Y40524-X	24x2x0.50	25.70	240	1.180
0.75 mm²				
51Y40801-X	1x2x0.75	10.50	20	244
51Y40802-X	2x2x0.75	12.50	38	330
51Y40804-X	4x2x0.75	14.60	67	440
51Y40808-X	8x2x0.75	18.00	125	650
51Y40810-X	10x2x0.75	20.00	154	840
51Y40812-X	12x2x0.75	20.70	182	901
51Y40816-X	16x2x0.75	23.60	242	1.150
51Y40820-X	20x2x0.75	25.50	300	1.231
51Y40824-X	24x2x0.75	29.10	360	1.650

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.00 mm²				
51Y41001-X	1x2x1.00	11.20	25	263
51Y41002-X	2x2x1.00	13.00	48	372
51Y41004-X	4x2x1.00	15.50	87	470
51Y41008-X	8x2x1.00	18.30	165	676
51Y41010-X	10x2x1.00	21.90	205	950
51Y41012-X	12x2x1.00	22.80	245	1.005
51Y41016-X	16x2x1.00	25.90	322	1.250
51Y41020-X	20x2x1.00	28.00	385	1.431
1.50 mm²				
51Y41501-X	1x2x1.50	11.50	33	290
51Y41502-X	2x2x1.50	14.40	66	430
51Y41504-X	4x2x1.50	17.20	125	600
51Y41508-X	8x2x1.50	21.90	238	1.001
51Y41510-X	10x2x1.50	25.80	293	1.251
51Y41512-X	12x2x1.50	27.00	352	1.350
51Y41516-X	16x2x1.50	30.60	465	1.810
51Y41520-X	20x2x1.50	32.50	580	2.120

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* There is black PE sheathed version too.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-Y(St)YSWAY(ö)-PiMF/TiMF	(CU/PVC/PSCR(TSCR)/OSCR/PVC/SWA/PVC(ö))
RE-2Y(St)YSWAY(ö)-PiMF/TiMF	(CU/PE/PSCR(TSCR)/OSCR/PVC/SWA/PVC(ö))
RE-2X(St)YSWAY(ö)-PiMF/TiMF	(CU/XLPE/PSCR(TSCR)/OSCR/PVC/SWA/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC/ EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11) , PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1)
Armour	Round galvanized steel wire (Min. Diameter 0.90 mm)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC:100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y60502-X	2x2x0.50	12.20	35	340
51Y60504-X	4x2x0.50	14.80	58	450
51Y60508-X	8x2x0.50	18.00	105	602
51Y60510-X	10x2x0.50	21.00	130	811
51Y60512-X	12x2x0.50	22.00	153	904
51Y60516-X	16x2x0.50	24.20	202	1.110
51Y60520-X	20x2x0.50	25.50	252	1.250
51Y60524-X	24x2x0.50	30.50	302	1.690
0.75 mm²				
51Y60802-X	2x2x0.75	13.50	45	365
51Y60804-X	4x2x0.75	17.00	77	490
51Y60808-X	8x2x0.75	19.50	150	795
51Y60810-X	10x2x0.75	22.50	180	960
51Y60812-X	12x2x0.75	24.00	215	1.080
51Y60816-X	16x2x0.75	25.60	280	1.300
51Y60820-X	20x2x0.75	29.50	350	1.700
51Y60824-X	24x2x0.75	32.00	419	2.000
1.00 mm²				
51Y61002-X	2x2x1.00	13.80	54	385
51Y61004-X	4x2x1.00	17.00	96	540
51Y61008-X	8x2x1.00	21.00	185	902
51Y61010-X	10x2x1.00	24.20	225	1.110
51Y61012-X	12x2x1.00	25.80	272	1.200
51Y61016-X	16x2x1.00	29.80	360	1.701
51Y61020-X	20x2x1.00	31.00	450	1.900
51Y61024-X	24x2x1.00	35.80	538	2.180

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
51Y61302-X	2x2x1.30	15.20	65	460
51Y61304-X	4x2x1.30	19.40	120	655
51Y61308-X	8x2x1.30	24.70	230	1.101
51Y61310-X	10x2x1.30	28.80	288	1.400
51Y61312-X	12x2x1.30	30.30	340	1.705
51Y61316-X	16x2x1.30	33.80	455	2.010
51Y61320-X	20x2x1.30	35.80	570	2.520
51Y61324-X	24x2x1.30	38.70	680	2.920
1.50 mm²				
51Y61502-X	2x2x1.50	16.00	72	470
51Y61504-X	4x2x1.50	20.50	135	810
51Y61508-X	8x2x1.50	25.00	258	1.150
51Y61510-X	10x2x1.50	29.00	318	1.620
51Y61512-X	12x2x1.50	30.00	380	1.770
51Y61516-X	16x2x1.50	33.50	502	2.118
51Y61520-X	20x2x1.50	36.50	625	2.680
51Y61524-X	24x2x1.50	40.20	750	3.082

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* There is black PE sheathed version too.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

- RE-Y(St)YSWAY-PiMF/TiMF (CU/PVC/PSCR(TSCR)/OSCR/PVC/SWA/PVC)
 RE-2Y(St)YSWAY-PiMF/TiMF (CU/PE/PSCR(TSCR)/OSCR/PVC/SWA/PVC)
 RE-2X(St)YSWAY-PiMF/TiMF (CU/XLPE/PSCR(TSCR)/OSCR/PVC/SWA/PVC)



Construction

Conductor	Plain annealed stranded copper wires (IEC/ EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (VDE 0207 YM1/HD 21.1.S4 Tm1, EN 50290-2)
Armour	Round galvanized steel wire (Min. Diameter 0.90 mm)
Sheath	UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω

Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y60502-X	2x2x0.50	12.20	35	340
50Y60504-X	4x2x0.50	14.80	58	450
50Y60508-X	8x2x0.50	18.00	105	602
50Y60510-X	10x2x0.50	21.00	130	811
50Y60512-X	12x2x0.50	22.00	153	904
50Y60516-X	16x2x0.50	24.20	202	1.110
50Y60520-X	20x2x0.50	25.50	252	1.250
50Y60524-X	24x2x0.50	30.50	302	1.690
0.75 mm²				
50Y60802-X	2x2x0.75	13.50	45	365
50Y60804-X	4x2x0.75	17.00	77	490
50Y60808-X	8x2x0.75	19.50	150	795
50Y60810-X	10x2x0.75	22.50	180	960
50Y60812-X	12x2x0.75	24.00	215	1.080
50Y60816-X	16x2x0.75	25.60	280	1.300
50Y60820-X	20x2x0.75	29.50	350	1.700
50Y60824-X	24x2x0.75	32.00	419	2.000
1.00 mm²				
50Y61002-X	2x2x1.00	13.80	54	385
50Y61004-X	4x2x1.00	17.00	96	540
50Y61008-X	8x2x1.00	21.00	185	902
50Y61010-X	10x2x1.00	24.20	225	1.110
50Y61012-X	12x2x1.00	25.80	272	1.200
50Y61016-X	16x2x1.00	29.80	360	1.701
50Y61020-X	20x2x1.00	31.00	450	1.900
50Y61024-X	24x2x1.00	35.80	538	2.180

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
50Y61302-X	2x2x1.30	15.20	65	460
50Y61304-X	4x2x1.30	19.40	120	655
50Y61308-X	8x2x1.30	24.70	230	1.101
50Y61310-X	10x2x1.30	28.80	288	1.400
50Y61312-X	12x2x1.30	30.30	340	1.705
50Y61316-X	16x2x1.30	33.80	455	2.010
50Y61320-X	20x2x1.30	35.80	570	2.520
50Y61324-X	24x2x1.30	38.70	680	2.920
1.50 mm²				
50Y61502-X	2x2x1.50	16.00	72	470
50Y61504-X	4x2x1.50	20.50	135	810
50Y61508-X	8x2x1.50	25.00	253	1.150
50Y61510-X	10x2x1.50	29.00	313	1.620
50Y61512-X	12x2x1.50	30.00	380	1.770
50Y61516-X	16x2x1.50	33.50	502	2.118
50Y61520-X	20x2x1.50	36.50	625	2.680
50Y61524-X	24x2x1.50	40.20	750	3.082

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* Black PE sheathed or PE inner sheathed type also available.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)YSWBV	(CU/PVC/OSCR/PVC/SWB/PVC)
RE-2Y(St)YSWBV	(CU/PE/OSCR/PVC/SWB/PVC)
RE-2X(St)YSWBV	(CU/XLPE/OSCR/PVC/SWB/PVC)



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (VDE 0207 YM1/HD 21.1.S4 Tm1, EN 50290 -2)
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100 PE: 5000 XLPE: 5000					
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y50501-X	1x2x0.50	8.90	14	120
50Y50502-X	2x2x0.50	10.70	28	170
50Y50504-X	4x2x0.50	12.85	46	230
50Y50508-X	8x2x0.50	15.50	83	340
50Y50510-X	10x2x0.50	17.00	102	400
50Y50512-X	12x2x0.50	17.80	125	440
50Y50516-X	16x2x0.50	20.00	162	550
50Y50520-X	20x2x0.50	21.50	200	658
50Y50524-X	24x2x0.50	23.70	240	750
0.75 mm²				
50Y50801-X	1x2x0.75	9.00	20	140
50Y50802-X	2x2x0.75	11.00	38	200
50Y50804-X	4x2x0.75	13.50	67	280
50Y50808-X	8x2x0.75	17.00	125	445
50Y50810-X	10x2x0.75	19.70	154	480
50Y50812-X	12x2x0.75	20.00	182	540
50Y50816-X	16x2x0.75	22.50	242	701
50Y50820-X	20x2x0.75	24.00	300	855
50Y50824-X	24x2x0.75	26.90	360	995

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.00 mm²				
50Y51001-X	1x2x1.00	9.70	25	147
50Y51002-X	2x2x1.00	11.90	48	217
50Y51004-X	4x2x1.00	14.20	87	305
50Y51008-X	8x2x1.00	18.00	165	488
50Y51010-X	10x2x1.00	20.00	205	570
50Y51012-X	12x2x1.00	21.80	245	693
50Y51016-X	16x2x1.00	24.10	322	850
50Y51020-X	20x2x1.00	25.90	385	1.000
1.50 mm²				
50Y51501-X	1x2x1.50	11.00	33	170
50Y51502-X	2x2x1.50	13.50	66	250
50Y51504-X	4x2x1.50	16.50	125	410
50Y51508-X	8x2x1.50	21.00	233	680
50Y51510-X	10x2x1.50	23.80	293	845
50Y51512-X	12x2x1.50	25.10	352	950
50Y51516-X	16x2x1.50	28.80	465	1.200
50Y51520-X	20x2x1.50	30.70	580	1.400

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0: PVC, 2: PE, 4 : XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* Black PE sheathed or PE inner sheathed type also available.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

- RE-Y(St)YSWB(ö) (CU/PVC/OSCR/PVC/SWB/PVC(ö))
- RE-2Y(St)YSWB(ö) (CU/PE/OSCR/PVC/SWB/PVC(ö))
- RE-2X(St)YSWB(ö) (CU/XLPE/OSCR/PVC/SWB/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/triples are stranded in layers together with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1)
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC:100 PE: 5000 XLPE: 5000					
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y50501-X	1x2x0.50	8.90	14	120
51Y50502-X	2x2x0.50	10.70	28	170
51Y50504-X	4x2x0.50	12.85	46	230
51Y50508-X	8x2x0.50	15.50	83	340
51Y50510-X	10x2x0.50	17.00	102	400
51Y50512-X	12x2x0.50	17.80	125	440
51Y50516-X	16x2x0.50	20.00	162	550
51Y50520-X	20x2x0.50	21.50	200	658
51Y50524-X	24x2x0.50	23.70	240	760
0.75 mm²				
51Y50801-X	1x2x0.75	9.00	20	140
51Y50802-X	2x2x0.75	11.00	38	200
51Y50804-X	4x2x0.75	13.50	67	280
51Y50808-X	8x2x0.75	17.00	125	445
51Y50810-X	10x2x0.75	19.70	154	480
51Y50812-X	12x2x0.75	20.00	182	540
51Y50816-X	16x2x0.75	22.50	242	701
51Y50820-X	20x2x0.75	24.00	300	855
51Y50824-X	24x2x0.75	26.90	360	995

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.00 mm²				
51Y51001-X	1x2x1.00	9.70	25	147
51Y51002-X	2x2x1.00	11.90	48	217
51Y51004-X	4x2x1.00	14.20	87	305
51Y51008-X	8x2x1.00	18.00	165	488
51Y51010-X	10x2x1.00	20.00	205	570
51Y51012-X	12x2x1.00	21.80	245	693
51Y51016-X	16x2x1.00	24.10	322	850
51Y51020-X	20x2x1.00	25.90	385	1.000
1.50 mm²				
51Y51501-X	1x2x1.50	11.00	33	170
51Y51502-X	2x2x1.50	13.50	66	250
51Y51504-X	4x2x1.50	16.50	125	410
51Y51508-X	8x2x1.50	21.00	238	680
51Y51510-X	10x2x1.50	23.80	293	845
51Y51512-X	12x2x1.50	25.10	352	950
51Y51516-X	16x2x1.50	28.80	465	1.200
51Y51520-X	20x2x1.50	30.70	580	1.400

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 1.30 / 2.50 mm² cross section, STA armoured and triple versions.

* There is black PE sheathed version too.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-Y(St)YSWB(ö)-PiMF/TiMF	(CU/PVC/PSCR(TSCR)/OSCR/PVC/SWB/PVC(ö))
RE-2Y(St)YSWB(ö)-PiMF/TiMF	(CU/PE/PSCR(TSCR)/OSCR/PVC/SWB/PVC(ö))
RE-2X(St)YSWB(ö)-PiMF/TiMF	(CU/XLPE/PSCR(TSCR)/OSCR/PVC/SWB/PVC(ö))



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red. numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1)
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	UV, oil and aliphatic hydrocarbon resistant, flame retardant. NBR/PVC Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115		Capacitance values may increase by 20% up to 4 pairs.			
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC :100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 27%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24 (CAT-C), (BS 4066 part 1&3), EN 50266-2-4					
Oil Resistance (IEC 60811)	ASTM No 2 oil 90°C 168 hours (7x24)					
Aliphatic Hydrocarbon Resistant	NF M 87-202					



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
51Y80502-X	2x2x0.50	11.80	35	200
51Y80504-X	4x2x0.50	14.00	58	280
51Y80508-X	8x2x0.50	17.00	105	430
51Y80510-X	10x2x0.50	19.70	130	510
51Y80512-X	12x2x0.50	21.00	153	610
51Y80516-X	16x2x0.50	23.40	202	755
51Y80520-X	20x2x0.50	25.70	252	880
51Y80524-X	24x2x0.50	28.40	302	1.060
0.75 mm²				
51Y80802-X	2x2x0.75	12.80	45	235
51Y80804-X	4x2x0.75	15.00	77	320
51Y80808-X	8x2x0.75	17.50	150	485
51Y80810-X	10x2x0.75	21.70	180	645
51Y80812-X	12x2x0.75	22.80	215	740
51Y80816-X	16x2x0.75	26.00	280	942
51Y80820-X	20x2x0.75	28.00	350	1.048
51Y80824-X	24x2x0.75	30.80	419	1.260
1.00 mm²				
51Y81002-X	2x2x1.00	13.00	54	250
51Y81004-X	4x2x1.00	16.00	96	375
51Y81008-X	8x2x1.00	20.00	185	570
51Y81010-X	10x2x1.00	23.00	225	760
51Y81012-X	12x2x1.00	24.00	272	852
51Y81016-X	16x2x1.00	27.50	360	1.045
51Y81020-X	20x2x1.00	29.00	450	1.195
51Y81024-X	24x2x1.00	32.50	538	1.468

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
51Y81302-X	2x2x1.30	14.70	65	290
51Y81304-X	4x2x1.30	18.00	120	430
51Y81308-X	8x2x1.30	22.70	230	740
51Y81310-X	10x2x1.30	25.50	288	902
51Y81312-X	12x2x1.30	27.50	340	1.030
51Y81316-X	16x2x1.30	31.00	455	1.301
51Y81320-X	20x2x1.30	33.90	570	1.549
51Y81324-X	24x2x1.30	36.50	680	1.750
1.50 mm²				
51Y81502-X	2x2x1.50	15.00	72	315
51Y81504-X	4x2x1.50	19.20	135	480
51Y81508-X	8x2x1.50	23.50	258	750
51Y81510-X	10x2x1.50	26.00	318	929
51Y81512-X	12x2x1.50	27.80	380	1.098
51Y81516-X	16x2x1.50	32.00	502	1.380
51Y81520-X	20x2x1.50	34.00	625	1.602
51Y81524-X	24x2x1.50	38.00	750	1.925

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0:PVC, 2:PE, 4:XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* There is black PE sheathed version too.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.

RE-Y(St)YSWBYPiMF/TiMF	(CU/PVC/PSCR(TSCR)/OSCR/PVC/SWB/PVC)
RE-2Y(St)YSWBYPiMF/TiMF	(CU/PE/PSCR(TSCR)/OSCR/PVC/SWB/PVC)
RE-2X(St)YSWBYPiMF/TiMF	(CU/XLPE/PSCR(TSCR)/OSCR/PVC/SWB/PVC)



Construction

Conductor	Plain annealed stranded copper wires (IEC/EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Individual Separator	Polyester tape
Individual Shielding	AL-PES tape (with 0.60 mm tinned copper drain wire)
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Shielded Pairs/Triples are stranded in layers with the communication core
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Inner Sheath	PVC, Black (VDE 0207 YM1/HD 21.1.S4 TM1, EN 50290 -2)
Armour	Galvanized steel wire braiding (Min. Diameter 0.30 mm, Coverage Rate 75%)
Sheath	UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM1), Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:220 PE Insulation:115 XLPE Insulation:115 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC:100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

For the Yw and LSF (heat resistant PVC and low smoke fume) versions please contact our sales dept.



PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
0.50 mm²				
50Y80502-X	2x2x0.50	11.80	35	200
50Y80504-X	4x2x0.50	14.00	58	280
50Y80508-X	8x2x0.50	17.00	105	430
50Y80510-X	10x2x0.50	19.70	130	510
50Y80512-X	12x2x0.50	21.00	153	610
50Y80516-X	16x2x0.50	23.40	202	755
50Y80520-X	20x2x0.50	25.70	252	880
50Y80524-X	24x2x0.50	28.40	302	1.060
0.75 mm²				
50Y80802-X	2x2x0.75	12.80	45	235
50Y80804-X	4x2x0.75	15.00	77	320
50Y80808-X	8x2x0.75	17.50	150	485
50Y80810-X	10x2x0.75	21.70	180	645
50Y80812-X	12x2x0.75	22.80	215	740
50Y80816-X	16x2x0.75	26.00	280	942
50Y80820-X	20x2x0.75	28.00	350	1.048
50Y80824-X	24x2x0.75	30.80	419	1.260
1.00 mm²				
50Y81002-X	2x2x1.00	13.00	54	250
50Y81004-X	4x2x1.00	16.00	96	375
50Y81008-X	8x2x1.00	20.00	185	570
50Y81010-X	10x2x1.00	23.00	225	760
50Y81012-X	12x2x1.00	24.00	272	852
50Y81016-X	16x2x1.00	27.50	360	1.045
50Y81020-X	20x2x1.00	29.00	450	1.195
50Y81024-X	24x2x1.00	32.50	538	1.468

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)(±5%)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT PE, XLPE INSULATION (Kg/Km)
1.30 mm²				
50Y81302-X	2x2x1.30	14.70	65	290
50Y81304-X	4x2x1.30	18.00	120	430
50Y81308-X	8x2x1.30	22.70	230	740
50Y81310-X	10x2x1.30	25.50	288	902
50Y81312-X	12x2x1.30	27.50	340	1.030
50Y81316-X	16x2x1.30	31.00	455	1.301
50Y81320-X	20x2x1.30	33.90	570	1.549
50Y81324-X	24x2x1.30	36.50	680	1.750
1.50 mm²				
50Y81502-X	2x2x1.50	15.00	72	315
50Y81504-X	4x2x1.50	19.20	135	480
50Y81508-X	8x2x1.50	23.50	258	750
50Y81510-X	10x2x1.50	26.00	318	929
50Y81512-X	12x2x1.50	27.80	380	1.098
50Y81516-X	16x2x1.50	32.00	502	1.380
50Y81520-X	20x2x1.50	34.00	625	1.602
50Y81524-X	24x2x1.50	38.00	750	1.925

The cable weight can be slightly higher in PVC insulated version.

X: Sheath Colors (0:Blue, 1:Black, 2:Gray)

Y: Insulation Type (0: PVC, 2: PE, 4 : XLPE)

* Please contact our sales dept. for the 2.50 mm² cross section, STA armoured and triple versions.

* Black PE sheathed or PE inner sheathed type also available.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.



RE-Y(St)Yv
RE-2Y(St)Yv
RE-2X(St)Yv



Construction

Conductor	Plain annealed stranded copper wires (IEC / EN 228, HD 383, BS 6360, VDE 0295 Class 2)
Insulation	PVC (EN 50290 -2 / VDE 0207 Y11), PE (VDE 0207 2Y11) or XLPE
Core Colors	Pair Black/White, numbered Triple Black/White/Red, numbered
Communication Core	0.50 mm ² XLPE insulated, orange (for more than one pair or triple cables)
Lay-up	Pairs/ triples are stranded in layers with the communication core.
Separator	Polyester tape
Overall Shielding	AL-PES tape (with 7x0.30 mm tinned copper drain wire)
Sheath	UV resistant, Flame retardant PVC (EN 50290 -2 / VDE 0207 YM1/HD 21.1.S4 TM 1, thickness VDE 0816 teil 2), Black or Blue (RAL 5015) (other colors upon request)
Reference Standards	BS 5308 part1, part2; EN 50288-7; VDE 0815; VDE 0816

Technical and Electrical Properties (20°C)

Cross Section (mm ²)	0.50	0.75	1.00	1.30	1.50	2.50
Conductor (Cu) (stranded)	7x0.30 mm	7x0.37 mm	7x0.43 mm	7x0.49 mm	7x0.52 mm	7x0.67 mm
Insulation Thickness (nom.mm)	0.40	0.40	0.40	0.50	0.50	0.60
Conductor Resistance (max.Ω/km)	36	24.5	18.1	14.2	12.1	7.41
L/R Ratio (max.)	25μH/ Ω	25μH/ Ω	25μH/ Ω	40μH/ Ω	40μH/ Ω	60μH/ Ω
Operating Voltage	300V / 500 V					
Test Voltage	Core/Core 2000 V		Core/Screen 1000 V			
Capacitance (800 Hz) max.nF/km	PVC Insulation:170 PE Insulation:85 XLPE Insulation:85 Capacitance values may increase by 20% up to 4 pairs.					
Capacitance Unbalanced (max.)	500pF / 500m					
Insulation Resistance(min. M.Ωxkm)	PVC:100		PE: 5000		XLPE: 5000	
Temperature Range	PVC and PE : fixed -40°C.....+70°C,		during installation -5°C.....+50°C			
	XLPE : fixed -40°C.....+90°C,		during installation -5°C.....+50°C			
Min. Bending Radius (fixed)	10 x Cable diameter					
Oxygen Index	Min. 29%					
Flame Tests	IEC / EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2					
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours					

* Please contact our sales dept. for the double sheathed YY version.

* Please contact our sales dept. for the PiMF/TiMF version and armoured (SWA, SWB) version.

* Tinned copper (TC) and/or solid copper conductor (class 1) versions are also available.