

Power Cables



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H05V-U**Applications**

300 / 500 V, Cu / PVC insulated wires are used in dry rooms, distribution boards and switching panels, in conduits, on the plaster and under the plaster.

Construction

Conductor	Solid annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1)
Insulation	PVC (EN 50525-1 TI 1)
Reference Standards	TS EN 50525-2-31, DIN VDE 0281, BS 6004
Flame Test	IIEC/ EN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	4 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1000001	1X 0.5 re	2.00	9
P1000002	1X 0.75 re	2.21	12
P1000003	1X 1.0 re	2.36	15

**H07V-U, H07V-R, (NYA)****Applications**

450 / 750 V, Cu / PVC insulated wires are used in dry rooms, distribution boards and switching panels, in conduits, on the plaster and under the plaster in closed installation ducts.

Construction

Conductor	Solid / Stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1)
Insulation	PVC
Reference Standards	TS EN 50525-2-31, DIN VDE 0281-3, BS 6004
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	450 V / 750V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	8 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1050001	1X1.5 re	2.80	21	P1100008	1X35 rm	9.70	361
P1050002	1X2.5 re	3.35	31	P1100009	1X50 rm	11.10	500
P1050003	1X4.0 re	3.82	46	P1100010	1X70 rm	13.40	686
P1050004	1X6.0 re	4.33	66	P1100011	1X95 rm	15.30	928
P1100001	1X1.5 rm	2.96	22	P1100012	1X120 rm	17.00	1162
P1100002	1X2.5 rm	3.57	32	P1100013	1X150 rm	18.50	1420
P1100003	1X4.0 rm	4.08	48	P1100014	1X185 rm	20.70	1779
P1100004	1X6.0 rm	4.66	70	P1100015	1X240 rm	25.50	2335
P1100005	1X10 rm	6.00	116	P1100016	1X300 rm	27.90	2894
P1100006	1X16 rm	7.15	171	P1100017	1X400 rm	29.90	3740
P1100007	1X25 rm	8.57	263				

H05V-K (NYAF)**Applications**

300 / 500 V, Cu / PVC, insulated flexible wires are used in dry rooms, distribution boards and switching panels, in conduits, on the plaster and under the plaster in closed installation ducts.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC (EN 50525-1 TI 1)
Reference Standards	TS EN 50525-2-31, DIN VDE 0281, BS 6004
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	4 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1150001	1X 0.5	2.00	9
P1150002	1X 0.75	2.28	12
P1150003	1X 1.0	2.42	15

**H07V-K, (NYAF)****Applications**

450 / 750 V, Cu / PVC insulated flexible wires are used in dry rooms, distribution boards and switching panels, in conduits, on the plaster and under the plaster in closed installation ducts.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class5)
Insulation	PVC
Reference Standards	TS EN 50525-2-31, DIN VDE 0281-3, BS 6004
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	450 V / 750 V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Cable diameter < 8 mm : 4 x Cable diameter 8 ≤ Cable diameter ≤ 12 mm : 5 x Cable diameter Cable diameter > 12 mm : 6 x Cable diameter

PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1200001	1X1.5	2.98	22	P1200009	1X50	11.40	500
P1200002	1X2.5	3.60	32	P1200010	1X70	13.50	686
P1200003	1X4.0	4.12	48	P1200011	1X95	15.50	928
P1200004	1X6.0	4.70	70	P1200012	1X120	17.10	1162
P1200005	1X10	6.10	116	P1200013	1X150	18.50	1420
P1200006	1X16	7.25	171	P1200014	1X185	20.80	1779
P1200007	1X25	8.90	263	P1200015	1X240	25.60	2335
P1200008	1X35	9.65	361	P1200016	1X300	28.00	2894

H03VV-F**Applications**

300 / 300 V, Cu / PVC / PVC, flexible multicore cables are used for use on small appliances with low mechanical stress and for household appliances.

Cable construction

Conductors	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Outer Sheath	PVC
Reference Standards	TS EN 50525-2-71, TS EN 50525-2-11, DIN VDE 0281, BS 6500
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operation Voltage	300 V / 300 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Cable diameter < 8 mm : 4 x Cable diameter 8 ≤ Cable diameter ≤ 12 mm : 5 x Cable diameter Cable diameter > 12 mm : 6 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1250001	2X0.50	5.10	41	P1250004	3X0.75	6.00	65
P1250002	2X0.75	5.90	54	P1250005	4X0.50	6.00	59
P1250003	3X0.50	5.50	49	P1250006	4X0.75	6.40	75



H05VV-F



Applications

300 / 500 V, Cu / PVC / PVC, flexible multicore cables are used for u for household appliances with medium mechanical stress, in wet and damp places.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Outher Sheath	PVC
Reference Standards	TS EN 50525-2-71, TS EN 50525-2-11, DIN VDE 0281, BS 6500
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	6 x Cable diameter

PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1300001	2X0.75	6.10	59	P1300013	4X1.5	9.40	146
P1300002	2X1.0	6.50	66	P1300014	4X2.5	10.90	210
P1300003	2X1.5	7.50	94	P1300015	4X4.0	13.00	310
P1300004	2X2.5	9.40	140	P1300016	5X0.75	8.20	105
P1300005	2X4.0	11.00	196	P1300017	5X1.0	8.70	120
P1300006	3X0.75	6.70	70	P1300018	5X1.5	10.5	175
P1300007	3X1.0	7.10	78	P1300019	5X2.5	12.0	260
P1300008	3X1.5	8.40	113	P1300020	5X4.0	14.00	375
P1300009	3X2.5	9.90	170	P1300021	7X0.75	9.00	140
P1300010	3X4.0	11.60	240	P1300022	7X1.0	9.30	160
P1300011	4X0.75	7.30	86	P1300023	7X1.5	11.50	228
P1300012	4X1.0	7.90	102	P1300024	7X2.5	13.60	330

H05V2V2-F (+90 °C)**Application**

300 / 500 V, Cu / PVC / PVC, flexible multicore cables are used where the operating temperature must be high (+90 °C) and for household appliances where medium mechanical stress are important, in wet and damp places.

Construction

Conductors	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Outer Sheath	PVC
Reference Standards	TS EN 50525-2-11:2011, TS HD 308 S2 / T1
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	6 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1400001	2X0.75	6.10	59
P1400002	2X1.0	6.50	66
P1400003	2X1.5	7.50	94
P1400004	2X2.5	9.40	140
P1400005	2X4.0	11.00	196
P1400006	3X0.75	6.70	70
P1400007	3X1.0	7.10	78
P1400008	3X1.5	8.40	113
P1400009	3X2.5	9.90	170
P1400010	3X4.0	11.60	240
P1400011	4X0.75	7.30	86
P1400012	4X1.0	7.90	102

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1400013	4X1.5	9.40	146
P1400014	4X2.5	10.90	210
P1400015	4X4.0	13.00	310
P1400016	5X0.75	8.20	105
P1400017	5X1.0	8.70	120
P1400018	5X1.5	10.5	175
P1400019	5X2.5	12.0	260
P1400020	5X4.0	14.00	375
P1400021	7X0.75	9.00	140
P1400022	7X1.0	9.30	160
P1400023	7X1.5	11.50	228
P1400024	7X2.5	13.60	330



H03VVH2-F



Application

300 / 300 V, Cu / PVC / PVC flexible multicore cables are used for use on small appliances with low mechanical stress and for household appliances.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Outer Sheath	PVC
Reference Standards	TS EN 50525-2-71, TS EN 50525-2-11, DIN VDE 0281, BS 6500
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 300 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending radius	6 x Cable diameter

PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1350001	2X0.50	15X0.21	38
P1350002	2X0.75	21X0.21	49

H05VVH6-F

H07VVH6-F



Applications

300 / 500 V and 450 / 750 V, Cu / PVC / PVC flat form multicore flexible cables are used for crane, lift and pump cables applications.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Outer Sheath	PVC
Reference Standards	TS EN 50214
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	H05VVH6-F	300 / 500 V
	H07VVH6-F	450 / 750 V
Test Voltage (50 Hz)	H05VVH6-F	2 kV
	H07VVH6-F	2.5 kV
Maximum Operating Temperature	70 °C	
Minimum Bending Radius	8 X Cable diameter	

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1800001	4X0.75	4.2X13.0	93	P1850001	4X0.75	4.3X25.5	195
P1800002	4X1.0	4.5X13.7	116	P1850002	4X1.0	4.4X26.5	134
P1800003	8X0.75	5X14.6	148	P1850003	8X0.75	5X28.0	297
P1800004	8x1	5.8X18.0	212	P1850004	8X1	5.7X33.0	403



NYM

**Applications**

300 / 500 V, Cu / PVC / PVC multicore installation cables are used indoor or damp places and outdoor on or under the plaster. These cables are not suitable for underground applications.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Outer Sheath	PVC
Reference Standards	TS 9759 HD21.4 S2 / T1
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 4 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1450001	2X1.5	9.00	120	P1450013	4X1.5	10.30	175
P1450002	2X2.5	10.20	163	P1450014	4X2.5	11.70	240
P1450003	2X4.0	11.10	208	P1450015	4X4.0	13.10	326
P1450004	2X6.0	12.00	263	P1450016	4X6.0	14.20	415
P1450005	2X10	15.90	465	P1450017	4X10	18.70	718
P1450006	2X16	18.20	646	P1450018	4X16	21.80	1018
P1450007	3X1.5	9.50	144	P1450019	5X1.5	11.00	210
P1450008	3X2.5	10.60	197	P1450020	5X2.5	12.80	290
P1450009	3X4.0	11.80	256	P1450021	5X4.0	14.50	401
P1450010	3X6.0	13.00	345	P1450022	5X6.0	15.90	520
P1450011	3X10	16.90	572	P1450023	5X10	20.50	869
P1450012	3X16	19.50	812	P1450024	5X16	23.70	1230

H05Z-K**Applications**

300 / 500 V, Single core halogen free, flame retardant insulated, flexible wires are used for the areas where special importance is needed against fire, to be used in dry rooms, in distribution boards and switching panels, in conduits on and under plaster in closed installation ducts.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	LSFOH Thermoset
Reference Standards	EN 50525-3-41, BS 7211
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	8 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6150001	1X 0.5	2.00	9
P6150002	1X 0.75	2.28	12
P6150003	1X 1.0	2.42	15

**H07Z-K****Applications**

450 / 750 V, Single core halogen free, flame retardant insulated, flexible wires are used for the areas where special importance is needed against fire, to be used in dry rooms, in distribution boards and switching panels, in conduits on and under plaster in closed installation ducts.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	LSFOH Thermoset
Reference Standards	EN 50525-3-41, BS 7211
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	450 V / 750 V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Cable diameter < 8 mm : 4 x Cable diameter 8 ≤ Cable diameter ≤ 12 mm : 5 x Cable diameter Cable diameter > 12 mm : 6 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6200001	1X1.5	2.98	22	P6200009	1X50	11.40	500
P6200002	1X2.5	3.60	32	P6200010	1X70	13.50	686
P6200003	1X4.0	4.12	48	P6200011	1X95	15.50	928
P6200004	1X6.0	4.70	70	P6200012	1X120	17.10	1162
P6200005	1X10	6.10	116	P6200013	1X150	18.50	1420
P6200006	1X16	7.25	171	P6200014	1X185	20.80	1779
P6200007	1X25	8.90	263	P6200015	1X240	25.60	2335
P6200008	1X35	9.65	361	P6200016	1X300	28.00	2894

H05Z-U**Application**

300 / 500 V, Single core halogen free, flame retardant, flexible wires are used for the areas where special importance is needed against fire, to be used in dry rooms, in distribution boards and switching panels, in conduits on and under plaster in closed installation ducts.

Construction

Conductor	Solid annealed copper wire (IEC / BS / TS / EN 60228, VDE 0295 Class 1)
Insulation	LSFOH Thermoset
Reference Standards	TS EN 50525-3-41, BS7211
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS/BS/IEC/EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Cable diameter < 8 mm : 4 x Cable diameter 8 ≤ Cable diameter ≤ 12 mm : 5 x Cable diameter Cable diameter > 12 mm : 6 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6000001	1X 0.5 re	2.00	9
P6000002	1X 0.75 re	2.21	12
P6000003	1X 1.0 re	2.36	15

**H07Z-U, H07Z-R****Application**

450 / 750 V, Single core halogen free, flame retardant wires are used for the areas where special importance is needed against fire, to be used in dry rooms, in distribution boards and switching panels, in conduits on and under plaster in closed installation ducts.

Construction

Conductor	Solid / Stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1)
Insulation	LSFOH Thermoset
Reference Standards	EN 50525-3-41, BS 7211
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	450 V / 750V
Test Voltage	2.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 4 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6050001	1X1.5 re	2.80	21	P6100001	1X1.5 rm	2.96	22
P6050002	1X2.5 re	3.35	31	P6100002	1X2.5 rm	3.57	32
P6050003	1X4.0 re	3.82	46	P6100003	1X4.0 rm	4.08	48
P6050004	1X6.0 re	4.33	66	P6100004	1X6.0 rm	4.66	70
				P6100005	1X10 rm	6.00	116
				P6100006	1X16 rm	7.15	171
				P6100007	1X25 rm	8.57	263
				P6100008	1X35 rm	9.70	361
				P6100009	1X50 rm	11.10	500
				P6100010	1X70 rm	13.40	686
				P6100011	1X95 rm	15.30	928
				P6100012	1X120 rm	17.00	1162
				P6100013	1X150 rm	18.50	1420
				P6100014	1X185 rm	20.70	1779
				P6100015	1X240 rm	25.50	2335
				P6100016	1X300 rm	27.90	2894
				P6100017	1X400 rm	29.90	3740

**H05Z1Z1-F****Applications**

300 / 500 V, halogen free flexible multicore cables are used for the areas where special importance is needed against fire as general wiring cable primarily for installations in public areas for indoor and damp applications.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	LSFOH Thermoplastic
Outer Sheath	LSFOH Thermoplastic EN 50525-3-11
Reference Standards	TS EN 50525-3-11:2011
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	6 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6250001	2X0.75	6.10	59	P6250013	4X1.5	9.40	146
P6250002	2X1.0	6.50	66	P6250014	4X2.5	10.90	210
P6250003	2X1.5	7.50	94	P6250015	4X4.0	13.00	310
P6250004	2X2.5	9.40	140	P6250016	5X0.75	8.20	105
P6250005	2X4.0	11.00	196	P6250017	5X1.0	8.70	120
P6250006	3X0.75	6.70	70	P6250018	5X1.5	10.5	175
P6250007	3X1.0	7.10	78	P6250019	5X2.5	12.0	260
P6250008	3X1.5	8.40	113	P6250020	5X4.0	14.00	375
P6250009	3X2.5	9.90	170	P6250021	7X0.75	9.00	140
P6250010	3X4.0	11.60	240	P6250022	7X1.0	9.30	160
P6250011	4X0.75	7.30	86	P6250023	7X1.5	11.50	228
P6250012	4X1.0	7.90	102	P6250024	7X2.5	13.60	330



NYY



Applications

0.6 / 1 kV, Cu / PVC / PVC single or multicore cables are used indoor, outdoor and underground applications in cable ducts where mechanical stress are not too high.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1500001	1X1.5 re	6.10	53	P1500017	2X1.5 re	10.40	159
P1500002	1X2.5 re	6.50	68	P1500018	2X2.5 re	11.10	203
P1500003	1X4.0 re	7.25	92	P1500019	2X4.0 re	12.60	273
P1500004	1X6.0 re	7.85	115	P1500020	2X6.0 re	14.10	335
P1500005	1X10	9.00	170	P1500021	2X10	16.60	491
P1500006	1X16	10.10	237	P1500022	2X16	18.10	639
P1500007	1X25	11.20	340	P1500023	2X25	21.20	928
P1500008	1X35	12.50	438	P1500024	2X35	22.90	1205
P1500009	1X50	13.85	575	P1500025	2X50	27.80	1620
P1500010	1X70	15.70	785	P1500026	2X70	30.40	2158
P1500011	1X95	18.50	1090	P1500027	2X95	34.50	2840
P1500012	1X120	19.50	1290	P1500028	2X120	37.90	3540
P1500013	1X150	21.70	1620	P1500029	2X150	41.30	4280
P1500014	1X185	24.30	1995	P1500030	2X185	46.10	5290
P1500015	1X240	27.20	2590	P1500031	2X240	52.40	6880
P1500016	1X300	34.80	4110	P1500032	2X300	59.50	8640

NYY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1500033	3X1.5 re	11.20	160
P1500034	3X2.5 re	12.00	190
P1500035	3X4.0 re	14.10	240
P1500036	3X6.0 re	14.90	330
P1500037	3X10	17.90	410
P1500038	3X16	20.40	610
P1500039	3X16+10	21.70	1006
P1500040	3X25+16	25.00	1418
P1500041	3X35+16	27.00	1730
P1500042	3X50+25	31.00	2326
P1500043	3X70+35	36.00	3170
P1500044	3X95+50	41.30	4350
P1500045	3X120+70	44.40	5270
P1500046	3X150+70	48.00	6384
P1500047	3X185+95	54.60	8040
P1500048	3X240+120	61.00	10238
P1500049	3X300+150	66.80	12650
P1500050	3X25	23.20	1209
P1500051	3X35	25.50	1540
P1500052	3X50	29.00	2030
P1500053	3X70	32.60	2800
P1500054	3X95	39.00	3860
P1500055	3X120	41.50	4566
P1500056	3X150	47.20	5710
P1500057	3X185	51.90	7108
P1500058	3X240	58.80	9160
P1500059	3X300	64.00	11234
P1500060	4X1.5 re	11.60	217
P1500061	4X2.5 re	12.90	272
P1500062	4X4.0 re	15.10	388
P1500063	4X6.0 re	15.90	490
P1500064	4X10	19.30	729
P1500065	4X16	20.70	989
P1500066	4X25	25.50	1517
P1500067	4X35	27.30	2007
P1500068	4X50	32.00	2586
P1500069	4X70	37.20	3600

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1500070	4X95	43.70	4990
P1500071	4X120	46.00	5900
P1500072	4X150	51.00	7390
P1500073	4X185	58.00	9146
P1500074	4X240	65.50	11830
P1500075	4X300	71.80	14560
P1500076	5X1.5 re	12.90	258
P1500077	5X2.5 re	14.00	328
P1500078	5X4.0 re	16.20	470
P1500079	5X6.0 re	17.80	600
P1500080	5X10	21.40	918
P1500081	5X16	24.00	1260
P1500082	5X25	28.00	1830
P1500083	5X35	31.10	2364
P1500084	5X50	35.70	3140
P1500085	5X70	41.00	4332
P1500086	5X95	48.50	6000
P1500087	5X120	51.20	7146
P1500088	5X150	56.80	9004
P1500089	5X185	64.20	11070
P1500090	5X240	73.00	14320
P1500091	5X300	79.60	17640
P1500092	7X1.5 re	13.80	300
P1500093	7X2.5 re	14.80	390
P1500094	12X1.5 re	17.40	466
P1500095	12X2.5 re	19.20	617
P1500096	16X1.5 re	19.10	580
P1500097	16X2.5 re	21.00	774
P1500098	19X1.5 re	20.00	670
P1500099	19X2.5 re	22.20	902
P1500100	21X1.5 re	21.30	736
P1500101	21X2.5 re	23.40	987
P1500102	27X1.5 re	23.60	905
P1500103	27X2.5 re	26.30	1190
P1500104	30X1.5 re	24.80	990
P1500105	30X2.5 re	27.00	1350


NYY-K


Application

0.6 / 1 kV, Cu / PVC / PVC single or multicore cables are used indoor, outdoor and underground applications in cable ducts where mechanical stress are not too high.

Construction

Conductor	Fine stranded flexible annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	PVC
Filler	PVC
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1750001	1X1.5	6.10	53	P1750014	1X185	24.30	1995
P1750002	1X2.5	6.50	68	P1750015	1X240	27.20	2590
P1750003	1X4.0	7.25	92	P1750016	1X300	34.80	4110
P1750004	1X6.0	7.85	115	P1750017	2X1.5	10.40	159
P1750005	1X10	9.00	170	P1750018	2X2.5	11.10	203
P1750006	1X16	10.10	237	P1750019	2X4.0	12.60	273
P1750007	1X25	11.20	340	P1750020	2X6.0	14.10	335
P1750008	1X35	12.50	438	P1750021	2X10	16.60	491
P1750009	1X50	13.85	575	P1750022	2X16	18.10	639
P1750010	1X70	15.70	785	P1750023	2X25	21.20	928
P1750011	1X95	18.50	1090	P1750024	2X35	22.90	1205
P1750012	1X120	19.50	1290	P1750025	2X50	27.80	1620
P1750013	1X150	21.70	1620	P1750026	2X70	30.40	2158

NYY-K

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1750027	2X95	34.50	2840	P1750067	4X35	27.30	2007
P1750028	2X120	37.90	3540	P1750068	4X50	32.00	2586
P1750029	2X150	41.30	4280	P1750069	4X70	37.20	3600
P1750030	2X185	46.10	5290	P1750070	4X95	43.70	4990
P1750031	2X240	52.40	6880	P1750071	4X120	46.00	5900
P1750032	2X300	59.50	8640	P1750072	4X150	51.00	7390
P1750033	3X1.5	11.20	160	P1750073	4X185	58.00	9146
P1750034	3X2.5	12.00	190	P1750074	4X240	65.50	11830
P1750035	3X4.0	14.10	240	P1750075	4X300	71.80	14560
P1750036	3X6.0	14.90	330	P1750076	5X1.5	12.90	258
P1750037	3X10	17.90	410	P1750077	5X2.5	14.00	328
P1750038	3X16	20.40	610	P1750078	5X4.0	16.20	470
P1750039	3X16+10	21.70	1006	P1750079	5X6.0	17.80	600
P1750040	3X25+16	25.00	1418	P1750080	5X10	21.40	918
P1750041	3X35+16	27.00	1730	P1750081	5X16	24.00	1260
P1750042	3X50+25	31.00	2326	P1750082	5X25	28.00	1830
P1750043	3X70+35	36.00	3170	P1750083	5X35	31.10	2364
P1750044	3X95+50	41.30	4350	P1750084	5X50	35.70	3140
P1750045	3X120+70	44.40	5270	P1750085	5X70	41.00	4332
P1750046	3X150+70	48.00	6384	P1750086	5X95	48.50	6000
P1750047	3X185+95	54.60	8040	P1750087	5X120	51.20	7146
P1750048	3X240+120	61.00	10238	P1750088	5X150	56.80	9004
P1750049	3X300+150	66.80	12650	P1750089	5X185	64.20	11070
P1750050	3X25	23.20	1209	P1750090	5X240	73.00	14320
P1750051	3X35	25.50	1540	P1750091	5X300	79.60	17640
P1750052	3X50	29.00	2030	P1750092	7X1.5	13.80	300
P1750053	3X70	32.60	2800	P1750093	7X2.5	14.80	390
P1750054	3X95	39.00	3860	P1750094	12X1.5	17.40	466
P1750055	3X120	41.50	4566	P1750095	12X2.5	19.20	617
P1750056	3X150	47.20	5710	P1750096	16X1.5	19.10	580
P1750057	3X185	51.90	7108	P1750097	16X2.5	21.00	774
P1750058	3X240	58.80	9160	P1750098	19X1.5	20.00	670
P1750059	3X300	64.00	11234	P1750099	19X2.5	22.20	902
P1750060	4X1.5	11.60	217	P1750100	21X1.5	21.30	736
P1750061	4X2.5	12.90	272	P1750101	21X2.5	23.40	987
P1750062	4X4.0	15.10	388	P1750102	27X1.5	23.60	905
P1750063	4X6.0	15.90	490	P1750103	27X2.5	26.30	1190
P1750064	4X10	19.30	729	P1750104	30X1.5	24.80	990
P1750065	4X16	20.70	989	P1750105	30X2.5	27.00	1350
P1750066	4X25	25.50	1517				



N2XY



Applications

0.6 / 1 kV, Cu / XLPE / PVC single or multicore XLPE insulated cables are used for high operating temperature (90 °C) indoor, outdoor and underground applications in cable ducts where mechanical stress are not too high. These are resistant to increasing operating temperature in short term.

Construction

Conductor	Solid or stranded annealed copper wire. (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	PVC
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4000001	1X1.5 re	5.90	49	P4000017	2X1.5 re	10.20	145
P4000002	1X2.5 re	6.00	60	P4000018	2X2.5 re	11.00	179
P4000003	1X4.0 re	7.00	80	P4000019	2X4.0 re	12.00	230
P4000004	1X6.0 re	7.20	100	P4000020	2X6.0 re	13.00	280
P4000005	1X10	8.40	150	P4000021	2X10	15.60	440
P4000006	1X16	9.60	214	P4000022	2X16	17.90	612
P4000007	1X25	10.80	320	P4000023	2X25	20.50	896
P4000008	1X35	11.80	410	P4000024	2X35	22.50	1124
P4000009	1X50	13.20	528	P4000025	2X50	25.30	1450
P4000010	1X70	15.00	735	P4000026	2X70	29.20	2000
P4000011	1X95	17.50	1015	P4000027	2X95	34.20	2740
P4000012	1X120	18.90	1218	P4000028	2X120	36.90	3290
P4000013	1X150	20.80	1530	P4000029	2X150	40.70	4100
P4000014	1X185	23.30	1880	P4000030	2X185	46.00	5166
P4000015	1X240	26.20	2430	P4000031	2X240	52.00	6630
P4000016	1X300	28.60	3000	P4000032	2X300	56.90	8100

N2XY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4000033	3X1.5 re	10.90	165	P4000070	4X95	41.00	4600
P4000034	3X2.5 re	11.70	200	P4000071	4X120	44.50	5550
P4000035	3X4.0 re	13.00	270	P4000072	4X150	49.00	7000
P4000036	3X6.0 re	13.90	340	P4000073	4X185	56.00	8700
P4000037	3X10	16.80	490	P4000074	4X240	63.00	11180
P4000038	3X16	20.00	670	P4000075	4X300	69.00	13900
P4000039	3X16+10	21.00	960	P4000076	5X1.5 re	12.50	230
P4000040	3X25+16	24.00	1410	P4000077	5X2.5 re	13.50	294
P4000041	3X35+16	26.00	1728	P4000078	5X4.0 re	15.00	390
P4000042	3X50+25	29.00	2326	P4000079	5X6.0 re	16.40	508
P4000043	3X70+35	36.00	3200	P4000080	5X10	20.00	800
P4000044	3X95+50	41.10	4400	P4000081	5X16	22.80	1150
P4000045	3X120+70	42.40	5540	P4000082	5X25	26.90	1690
P4000046	3X150+70	47.00	6584	P4000083	5X35	29.80	2180
P4000047	3X185+95	52.60	8340	P4000084	5X50	33.70	2875
P4000048	3X240+120	597.00	10730	P4000085	5X70	39.40	4066
P4000049	3X300+150	64.00	13170	P4000086	5X95	45.60	5576
P4000050	3X25	22.00	1100	P4000087	5X120	49.10	7012
P4000051	3X35	24.50	1424	P4000088	5X150	54.80	8465
P4000052	3X50	27.00	1924	P4000089	5X185	62.20	10514
P4000053	3X70	31.60	2600	P4000090	5X240	70.00	13520
P4000054	3X95	37.00	3565	P4000091	5X300	76.60	16617
P4000055	3X120	40.00	4290	P4000092	7X1.5 re	13.20	266
P4000056	3X150	47.20	5450	P4000093	7X2.5 re	14.60	354
P4000057	3X185	50.00	6680	P4000094	12X1.5 re	16.70	400
P4000058	3X240	56.00	8680	P4000095	12X2.5 re	18.30	530
P4000059	3X300	62.00	10713	P4000096	15X1.5 re	19.10	580
P4000060	4X1.5 re	11.40	192	P4000097	15X2.5 re	21.00	774
P4000061	4X2.5 re	12.30	250	P4000098	19X1.5 re	20.00	670
P4000062	4X4.0 re	14.10	318	P4000099	19X2.5 re	22.20	902
P4000063	4X6.0 re	15.00	420	P4000100	21X1.5 re	21.30	736
P4000064	4X10	18.00	675	P4000101	21X2.5 re	23.40	987
P4000065	4X16	20.60	950	P4000102	27X1.5 re	23.60	905
P4000066	4X25	24.30	1407	P4000103	27X2.5 re	26.30	1190
P4000067	4X35	27.00	1827	P4000104	30X1.5 re	24.80	990
P4000068	4X50	30.40	2400	P4000105	30X2.5 re	27.00	1350
P4000069	4X70	35.70	3400				

**N2XY-K (RV-K)****Applications**

0.6 / 1 kV, Cu / XLPE / PVC single or multicore XLPE insulated cables are used for high operating temperature (90 °C) indoor, outdoor and underground applications in cable ducts where mechanical stress are not too high. These are resistant to increasing operating temperature in short term.

Construction

Conductor	Fine stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	XLPE
Filler	PVC
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 12 x Cable diameter Stranded Copper Wires : 8 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4200001	1X1.5	5.90	49	P4200017	2X1.5	10.20	145
P4200002	1X2.5	6.00	60	P4200018	2X2.5	11.00	179
P4200003	1X4.0	7.00	80	P4200019	2X4.0	12.00	230
P4200004	1X6.0	7.20	100	P4200020	2X6.0	13.00	280
P4200005	1X10	8.40	150	P4200021	2X10	15.60	440
P4200006	1X16	9.60	214	P4200022	2X16	17.90	612
P4200007	1X25	10.80	320	P4200023	2X25	20.50	896
P4200008	1X35	11.80	410	P4200024	2X35	22.50	1124
P4200009	1X50	13.20	528	P4200025	2X50	25.30	1450
P4200010	1X70	15.00	735	P4200026	2X70	29.20	2000
P4200011	1X95	17.50	1015	P4200027	2X95	34.20	2740
P4200012	1X120	18.90	1218	P4200028	2X120	36.90	3290
P4200013	1X150	20.80	1530	P4200029	2X150	40.70	4100
P4200014	1X185	23.30	1880	P4200030	2X185	46.00	5166
P4200015	1X240	26.20	2430	P4200031	2X240	52.00	6630
P4200016	1X300	28.60	3000	P4200032	2X300	56.90	8100

N2XY-K (RV-K)

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4200033	3X1.5	10.90	165	P4200070	4X95	41.00	4600
P4200034	3X2.5	11.70	200	P4200071	4X120	44.50	5550
P4200035	3X4.0	13.00	270	P4200072	4X150	49.00	7000
P4200036	3X6.0	13.90	340	P4200073	4X185	56.00	8700
P4200037	3X10	16.80	490	P4200074	4X240	63.00	11180
P4200038	3X16	20.00	670	P4200075	4X300	69.00	13900
P4200039	3X16+10	21.00	960	P4200076	5X1.5	12.50	230
P4200040	3X25+16	24.00	1410	P4200077	5X2.5	13.50	294
P4200041	3X35+16	26.00	1728	P4200078	5X4.0	15.00	390
P4200042	3X50+25	29.00	2326	P4200079	5X6.0	16.40	508
P4200043	3X70+35	36.00	3200	P4200080	5X10	20.00	800
P4200044	3X95+50	41.10	4400	P4200081	5X16	22.80	1150
P4200045	3X120+70	42.40	5540	P4200082	5X25	26.90	1690
P4200046	3X150+70	47.00	6584	P4200083	5X35	29.80	2180
P4200047	3X185+95	52.60	8340	P4200084	5X50	33.70	2875
P4200048	3X240+120	597.00	10730	P4200085	5X70	39.40	4066
P4200049	3X300+150	64.00	13170	P4200086	5X95	45.60	5576
P4200050	3X25	22.00	1100	P4200087	5X120	49.10	7012
P4200051	3X35	24.50	1424	P4200088	5X150	54.80	8465
P4200052	3X50	27.00	1924	P4200089	5X185	62.20	10514
P4200053	3X70	31.60	2600	P4200090	5X240	70.00	13520
P4200054	3X95	37.00	3565	P4200091	5X300	76.60	16617
P4200055	3X120	40.00	4290	P4200092	7X1.5	13.20	266
P4200056	3X150	47.20	5450	P4200093	7X2.5	14.60	354
P4200057	3X185	50.00	6680	P4200094	12X1.5	16.70	400
P4200058	3X240	56.00	8680	P4200095	12X2.5	18.30	530
P4200059	3X300	62.00	10713	P4200096	15X1.5	19.10	580
P4200060	4X1.5	11.40	192	P4200097	15X2.5	21.00	774
P4200061	4X2.5	12.30	250	P4200098	19X1.5	20.00	670
P4200062	4X4.0	14.10	318	P4200099	19X2.5	22.20	902
P4200063	4X6.0	15.00	420	P4200100	21X1.5	21.30	736
P4200064	4X10	18.00	675	P4200101	21X2.5	23.40	987
P4200065	4X16	20.60	950	P4200102	27X1.5	23.60	905
P4200066	4X25	24.30	1407	P4200103	27X2.5	26.30	1190
P4200067	4X35	27.00	1827	P4200104	30X1.5	24.80	990
P4200068	4X50	30.40	2400	P4200105	30X2.5	27.00	1350
P4200069	4X70	35.70	3400				



NHMH



Applications

300 / 500 V, halogen free multicore installation cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PP
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	DIN VDE 250-215
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6300001	2X1.5 re	8.00	95	P6300013	4X1.5 re	9.00	130
P6300002	2X2.5 re	8.90	115	P6300014	4X2.5 re	9.70	178
P6300003	2X4.0 re	10.00	160	P6300015	4X4.0 re	11.90	260
P6300004	2X6.0 re	10.90	210	P6300016	4X6.0 re	13.00	345
P6300005	2X10	14.60	340	P6300017	4X10	16.90	550
P6300006	2X16	16.70	510	P6300018	4X16	19.50	850
P6300007	3X1.5 re	8.50	105	P6300019	5X1.5 re	9.70	150
P6300008	3X2.5 re	9.10	140	P6300020	5X2.5 re	10.80	220
P6300009	3X4.0 re	10.50	200	P6300021	5X4.0 re	12.90	320
P6300010	3X6.0 re	12.00	280	P6300022	5X6.0 re	14.60	423
P6300011	3X10	15.70	440	P6300023	5X10	18.90	671
P6300012	3X16	17.80	665	P6300024	5X16	21.70	1032

N2XH

**Applications**

0.6 / 1 kV, halogen free single and multicore power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0276-604
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6400001	1X1.5 re	5.90	49	P6400016	1X300	28.60	3000
P6400002	1X2.5 re	6.00	60	P6400017	2X1.5 re	10.20	145
P6400003	1X4.0 re	7.00	80	P6400018	2X2.5 re	11.00	179
P6400004	1X6.0 re	7.20	100	P6400019	2X4.0 re	12.00	230
P6400005	1X10	8.40	150	P6400020	2X6.0 re	13.00	280
P6400006	1X16	9.60	214	P6400021	2X10	15.60	440
P6400007	1X25	10.80	320	P6400022	2X16	17.90	612
P6400008	1X35	11.80	410	P6400023	2X25	20.50	896
P6400009	1X50	13.20	528	P6400024	2X35	22.50	1124
P6400010	1X70	15.00	735	P6400025	2X50	25.30	1450
P6400011	1X95	17.50	1015	P6400026	2X70	29.20	2000
P6400012	1X120	18.90	1218	P6400027	2X95	34.20	2740
P6400013	1X150	20.80	1530	P6400028	2X120	36.90	3290
P6400014	1X185	23.30	1880	P6400029	2X150	40.70	4100
P6400015	1X240	26.20	2430				

N2XH

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6400030	2X185	46.00	5166
P6400031	2X240	52.00	6630
P6400032	2X300	56.90	8100
P6400033	3X1.5 re	10.90	165
P6400034	3X2.5 re	11.70	200
P6400035	3X4.0 re	13.00	270
P6400036	3X6.0 re	13.90	340
P6400037	3X10	16.80	490
P6400038	3X16	20.00	670
P6400039	3X16+10	21.00	960
P6400040	3X25+16	24.00	1410
P6400041	3X35+16	26.00	1728
P6400042	3X50+25	29.00	2326
P6400043	3X70+35	36.00	3200
P6400044	3X95+50	41.10	4400
P6400045	3X120+70	42.40	5540
P6400046	3X150+70	47.00	6584
P6400047	3X185+95	52.60	8340
P6400048	3X240+120	597.00	10730
P6400049	3X300+150	64.00	13170
P6400050	3X25	22.00	1100
P6400051	3X35	24.50	1424
P6400052	3X50	27.00	1924
P6400053	3X70	31.60	2600
P6400054	3X95	37.00	3565
P6400055	3X120	40.00	4290
P6400056	3X150	47.20	5450
P6400057	3X185	50.00	6680
P6400058	3X240	56.00	8680
P6400059	3X300	62.00	10713
P6400060	4X1.5 re	11.40	192
P6400061	4X2.5 re	12.30	250
P6400062	4X4.0 re	14.10	318
P6400063	4X6.0 re	15.00	420
P6400064	4X10	18.00	675
P6400065	4X16	20.60	950
P6400066	4X25	24.30	1407
P6400067	4X35	27.00	1827

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6400068	4X50	30.40	2400
P6400069	4X70	35.70	3400
P6400070	4X95	41.00	4600
P6400071	4X120	44.50	5550
P6400072	4X150	49.00	7000
P6400073	4X185	56.00	8700
P6400074	4X240	63.00	11180
P6400075	4X300	69.00	13900
P6400076	5X1.5 re	12.50	230
P6400077	5X2.5 re	13.50	294
P6400078	5X4.0 re	15.00	390
P6400079	5X6.0 re	16.40	508
P6400080	5X10	20.00	800
P6400081	5X16	22.80	1150
P6400082	5X25	26.90	1690
P6400083	5X35	29.80	2180
P6400084	5X50	33.70	2875
P6400085	5X70	39.40	4066
P6400086	5X95	45.60	5576
P6400087	5X120	49.10	7012
P6400088	5X150	54.80	8465
P6400089	5X185	62.20	10514
P6400090	5X240	70.00	13520
P6400091	5X300	76.60	16617
P6400092	7X1.5 re	13.20	266
P6400093	7X2.5 re	14.60	354
P6400094	12X1.5 re	16.70	400
P6400095	12X2.5 re	18.30	530
P6400096	15X1.5 re	19.10	580
P6400097	15X2.5 re	21.00	774
P6400098	19X1.5 re	20.00	670
P6400099	19X2.5 re	22.20	902
P6400100	21X1.5 re	21.30	736
P6400101	21X2.5 re	23.40	987
P6400102	27X1.5 re	23.60	905
P6400103	27X2.5 re	26.30	1190
P6400104	30X1.5 re	24.80	990
P6400105	30X2.5 re	27.00	1350

**N2XH-K (RZ1-K)****Applications**

0.6 / 1 kV, halogen free single and multicore power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Fine stranded flexible annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 5)
Insulation	XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0276-604
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

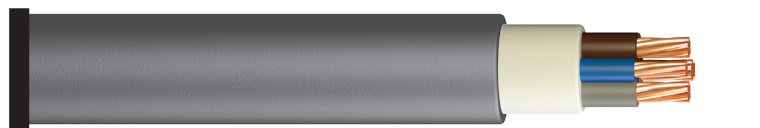
Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6750001	1X1.5	5.90	49	P6750015	1X240	26.20	2430
P6750002	1X2.5	6.00	60	P6750016	1X300	28.60	3000
P6750003	1X4.0	7.00	80	P6750017	2X1.5	10.20	145
P6750004	1X6.0	7.20	100	P6750018	2X2.5	11.00	179
P6750005	1X10	8.40	150	P6750019	2X4.0	12.00	230
P6750006	1X16	9.60	214	P6750020	2X6.0	13.00	280
P6750007	1X25	10.80	320	P6750021	2X10	15.60	440
P6750008	1X35	11.80	410	P6750022	2X16	17.90	612
P6750009	1X50	13.20	528	P6750023	2X25	20.50	896
P6750010	1X70	15.00	735	P6750024	2X35	22.50	1124
P6750011	1X95	17.50	1015	P6750025	2X50	25.30	1450
P6750012	1X120	18.90	1218	P6750026	2X70	29.20	2000
P6750013	1X150	20.80	1530	P6750027	2X95	34.20	2740
P6750014	1X185	23.30	1880	P6750028	2X120	36.90	3290

N2XH-K (RZ1-K)

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6750029	2X150	40.70	4100	P6750068	4X50	30.40	2400
P6750030	2X185	46.00	5166	P6750069	4X70	35.70	3400
P6750031	2X240	52.00	6630	P6750070	4X95	41.00	4600
P6750032	2X300	56.90	8100	P6750071	4X120	44.50	5550
P6750033	3X1.5	10.90	165	P6750072	4X150	49.00	7000
P6750034	3X2.5	11.70	200	P6750073	4X185	56.00	8700
P6750035	3X4.0	13.00	270	P6750074	4X240	63.00	11180
P6750036	3X6.0	13.90	340	P6750075	4X300	69.00	13900
P6750037	3X10	16.80	490	P6750076	5X1.5	12.50	230
P6750038	3X16	20.00	670	P6750077	5X2.5	13.50	294
P6750039	3X16+10	21.00	960	P6750078	5X4.0	15.00	390
P6750040	3X25+16	24.00	1410	P6750079	5X6.0	16.40	508
P6750041	3X35+16	26.00	1728	P6750080	5X10	20.00	800
P6750042	3X50+25	29.00	2326	P6750081	5X16	22.80	1150
P6750043	3X70+35	36.00	3200	P6750082	5X25	26.90	1690
P6750044	3X95+50	41.10	4400	P6750083	5X35	29.80	2180
P6750045	3X120+70	42.40	5540	P6750084	5X50	33.70	2875
P6750046	3X150+70	47.00	6584	P6750085	5X70	39.40	4066
P6750047	3X185+95	52.60	8340	P6750086	5X95	45.60	5576
P6750048	3X240+120	597.00	10730	P6750087	5X120	49.10	7012
P6750049	3X300+150	64.00	13170	P6750088	5X150	54.80	8465
P6750050	3X25	22.00	1100	P6750089	5X185	62.20	10514
P6750051	3X35	24.50	1424	P6750090	5X240	70.00	13520
P6750052	3X50	27.00	1924	P6750091	5X300	76.60	16617
P6750053	3X70	31.60	2600	P6750092	7X1.5	13.20	266
P6750054	3X95	37.00	3565	P6750093	7X2.5	14.60	354
P6750055	3X120	40.00	4290	P6750094	12X1.5	16.70	400
P6750056	3X150	47.20	5450	P6750095	12X2.5	18.30	530
P6750057	3X185	50.00	6680	P6750096	15X1.5	19.10	580
P6750058	3X240	56.00	8680	P6750097	15X2.5	21.00	774
P6750059	3X300	62.00	10713	P6750098	19X1.5	20.00	670
P6750060	4X1.5	11.40	192	P6750099	19X2.5	22.20	902
P6750061	4X2.5	12.30	250	P6750100	21X1.5	21.30	736
P6750062	4X4.0	14.10	318	P6750100	21X2.5	23.40	987
P6750063	4X6.0	15.00	420	P6750102	27X1.5	23.60	905
P6750064	4X10	18.00	675	P6750103	27X2.5	26.30	1190
P6750065	4X16	20.60	950	P6750104	30X1.5	24.80	990
P6750066	4X25	24.30	1407	P6750105	30X2.5	27.00	1350
P6750067	4X35	27.00	1827				

NHXMH**Applications**

300 / 500 V, halogen free multicore installation cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	DIN VDE 250-214
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	300 V / 500 V
Test Voltage (50 Hz)	2.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6350001	2X1.5 re	8.60	96	P6350013	4X1.5 re	9.70	140
P6350002	2X2.5 re	9.40	126	P6350014	4X2.5 re	10.70	185
P6350003	2X4.0 re	10.80	175	P6350015	4X4.0 re	12.60	270
P6350004	2X6.0 re	11.90	226	P6350016	4X6.0 re	14.00	360
P6350005	2X10	15.10	365	P6350017	4X10	17.70	574
P6350006	2X16	17.50	550	P6350018	4X16	20.00	873
P6350007	3X1.5 re	9.00	115	P6350019	5X1.5 re	10.50	167
P6350008	3X2.5 re	11.10	212	P6350020	5X2.5 re	11.50	220
P6350009	3X4.0 re	13.00	270	P6350021	5X4.0 re	13.90	330
P6350010	3X6.0 re	12.90	300	P6350022	5X6.0 re	15.00	435
P6350011	3X10	16.00	460	P6350023	5X10	19.30	700
P6350012	3X16	18.60	690	P6350024	5X16	22.80	1073

**NYRY****Applications**

0.6 / 1 kV, single or multicore galvanised steel wire armoured cables are used in generally underground where high tensile stresses and mechanical protection are needed during the operation.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Armour	Round galvanised steel wires
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0271
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1700001	2X1.5 re	13.40	350	P1700007	2X25	25.20	1675
P1700002	2X2.5 re	14.30	400	P1700008	2X35	27.80	2000
P1700003	2X4.0 re	16.60	600	P1700009	3X1.5 re	13.90	384
P1700004	2X6.0 re	17.80	700	P1700010	3X2.5 re	14.60	437
P1700005	2X10	20.00	916	P1700011	3X4.0 re	17.20	670
P1700006	2X16	22.30	1150	P1700012	3X6.0 re	18.50	784

NYRY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1700013	3X10	20.80	1038
P1700014	3X16	24.30	1466
P1700015	3X16+10	25.60	1720
P1700016	3X25+16	28.70	2275
P1700017	3X35+16	30.40	2660
P1700018	3X50+25	35.30	3640
P1700019	3X70+35	39.00	4666
P1700020	3X95+50	45.30	6160
P1700021	3X120+70	49.40	7691
P1700022	3X150+70	52.80	8990
P1700023	3X185+95	59.90	11170
P1700024	3X240+120	65.70	13750
P1700025	3X25	27.60	1929
P1700026	3X35	29.60	2362
P1700027	3X50	34.40	3180
P1700028	3X70	38.00	4070
P1700029	3X95	44.00	5392
P1700030	3X120	47.50	6560
P1700031	3X150	51.80	8005
P1700032	3X185	57.50	9560

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1700033	3X240	64.00	11930
P1700034	4X1.5 re	14.50	425
P1700035	4X2.5 re	16.70	600
P1700036	4X4.0 re	18.40	769
P1700037	4X6.0 re	19.60	897
P1700038	4X10	23.10	1330
P1700039	4X16	25.70	1725
P1700040	4X25	29.40	2350
P1700041	4X35	32.00	2890
P1700042	5X1.5 re	16.50	580
P1700043	5X2.5 re	17.50	677
P1700044	5X4.0 re	19.50	861
P1700045	5X6.0 re	21.00	1023
P1700046	5X10	24.70	1540
P1700047	5X16	28.30	2012
P1700048	7X1.5 re	17.30	650
P1700049	7X2.5 re	18.60	770
P1700050	12X1.5 re	20.80	900
P1700051	12X2.5 re	23.60	1240



NYBY



Applications

0.6 / 1 kV, single or multicore galvanized steel wire tape stresses and mechanical protection are needed during the operation.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Armour	Galvanized step tape
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1 / T1, DIN VDE 0271
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1600001	2X1.5 re	13.00	300	P1600007	2X25	23.20	1259
P1600002	2X2.5 re	14.00	363	P1600008	2X35	25.80	1560
P1600003	2X4.0 re	15.90	453	P1600009	3X1.5 re	13.50	340
P1600004	2X6.0 re	16.40	525	P1600010	3X2.5 re	14.60	400
P1600005	2X10	18.90	714	P1600011	3X4.0 re	16.20	510
P1600006	2X16	21.00	930	P1600012	3X6.0 re	17.00	609

NYBY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1600013	3X10	20.00	825	P1600033	3X240	61.00	10510
P1600014	3X16	22.30	1098	P1600034	4X1.5 re	14.50	380
P1600015	3X16+10	23.40	1220	P1600035	4X2.5 re	15.20	453
P1600016	3X25+16	26.10	1714	P1600036	4X4.0 re	17.40	590
P1600017	3X35+16	28.40	2065	P1600037	4X6.0 re	18.60	712
P1600018	3X50+25	32.00	2690	P1600038	4X10	21.10	978
P1600019	3X70+35	36.00	3610	P1600039	4X16	23.60	1334
P1600020	3X95+50	42.50	5150	P1600040	4X25	27.30	1874
P1600021	3X120+70	45.40	6150	P1600041	4X35	29.80	2364
P1600022	3X150+70	49.50	7312	P1600042	5X1.5 re	15.50	430
P1600023	3X185+95	56.50	9164	P1600043	5X2.5 re	16.50	520
P1600024	3X240+120	62.70	11498	P1600044	5X4.0 re	18.50	682
P1600025	3X25	25.00	1530	P1600045	5X6.0 re	19.50	834
P1600026	3X35	27.60	1900	P1600046	5X10	23.00	1165
P1600027	3X50	30.50	2450	P1600047	5X16	26.00	1540
P1600028	3X70	34.50	3260	P1600048	7X1.5 re	16.00	563
P1600029	3X95	41.00	4690	P1600049	7X2.5 re	17.60	686
P1600030	3X120	43.80	5464	P1600050	12X1.5 re	20.00	764
P1600031	3X150	48.30	6760	P1600051	12X2.5 re	21.60	960
P1600032	3X185	54.50	8254				



NYCY



Application

0.6 / 1 kV, cables with copper concentric conductors and tape are used in outdoor and underground applications. Concentric conductor can be used as neutral, protective or earth and connection monitoring the impacts on the cable through a control switch or a relay.

Construction

Conductor	Solid or stranded annealed copper wire (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Concentric Conductor	Copper wire and copper tape
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 0332-1-2 (VDE 0482-332-1-2)

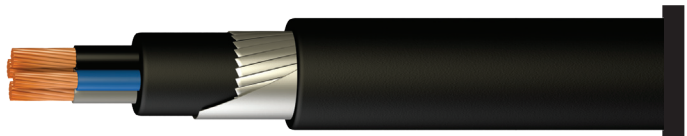
Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1650001	2X1.5/1.5	13.00	300	P1650008	2X35/16	25.80	1560
P1650002	2X2.5/2.5	14.00	363	P1650009	3X1.5/1.5	13.50	340
P1650003	2X4.0/4.0	15.90	453	P1650010	3X2.5/2.5	14.60	400
P1650004	2X6.0/6.0	16.40	525	P1650011	3X4.0/4.0	16.20	510
P1650005	2X10/10	18.90	714	P1650012	3X6.0/6.0	17.00	609
P1650006	2X16/16	21.00	930	P1650013	3X10/10	20.00	825
P1650007	2X25/16	23.20	1259				

NYCY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1650014	3X16/16	22.30	1098	P1650028	4X10/10	21.10	978
P1650015	3X25/16	25.00	1530	P1650029	4X16/16	23.60	1334
P1650016	3X35/16	27.60	1900	P1650030	4X25/16	27.30	1874
P1650017	3X50/25	30.50	2450	P1650031	4X35/16	29.80	2364
P1650018	3X70/35	34.50	3260	P1650032	5X1.5 /1.5	15.50	430
P1650019	3X95/50	41.00	4690	P1650033	5X2.5 /2.5	16.50	520
P1650020	3X120/70	43.80	5464	P1650034	5X4.0/4.0	18.50	682
P1650021	3X150/70	48.30	6760	P1650035	5X6.0 /6.0	19.50	834
P1650022	3X185/95	54.50	8254	P1650036	5X10/10	23.00	1165
P1650023	3X240/120	61.00	10510	P1650037	5X16/16	26.00	1540
P1650024	4X1.5/1.5	14.50	380	P1650038	7X1.5/1.5	16.00	563
P1650025	4X2.5/2.5	15.20	453	P1650039	7X2.5 /2.5	17.60	686
P1650026	4X4.0/4.0	17.40	590	P1650040	12X1.5 /1.5	20.00	764
P1650027	4X6.0/6.0	18.60	712	P1650041	12X2.5 /2.5	21.60	960

**NYFGbY (YVZ3V)****Applications**

0.6 / 1 kV, galvanised steel wire and tape armoured cables are for heavy duty operation conditions where mechanical protection is important.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	PVC
Filler	PVC
Armour	Galvanised steel wire and galvanised steel tape
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1 / T1, DIN VDE 0271
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	70 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1550001	2X10	20.00	800	P1550006	3X16	23.30	1176
P1550002	2X16	22.30	1012	P1550007	3X16+10	24.00	1530
P1550003	2X25	25.00	1360	P1550008	3X25+16	27.10	1820
P1550004	2X35	27.00	1650	P1550009	3X35+16	30.00	2200
P1550005	3X10	20.80	900				

NYFGbY (YVZ3V)

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P1550010	3X50+25	33.60	3000	P1550026	4X10	22.30	1070
P1550011	3X70+35	37.90	4000	P1550027	4X16	24.70	1417
P1550012	3X95+50	43.80	5210	P1550028	4X25	28.40	1970
P1550013	3X120+70	46.30	6120	P1550029	4X35	31.00	2460
P1550014	3X150+70	50.00	7260	P1550030	4X50	34.80	3198
P1550015	3X185+95	57.00	9236	P1550031	4X70	39.00	4340
P1550016	3X240+120	63.00	11750	P1550032	4X95	45.70	5760
P1550017	3X25	26.00	1634	P1550033	4X120	48.50	6754
P1550018	3X35	28.60	2000	P1550034	4X150	53.80	8400
P1550019	3X50	32.00	2590	P1550035	4X185	60.00	10257
P1550020	3X70	36.00	3400	P1550036	4X240	67.60	13123
P1550021	3X95	42.00	4600	P1550037	5X10	24.00	1250
P1550022	3X120	44.00	5360	P1550038	5X16	27.10	1630
P1550023	3X150	49.00	6623	P1550039	5X25	30.50	2327
P1550024	3X185	54.50	8140	P1550040	5X35	34.00	2954
P1550025	3X240	61.40	10410				

**N2XRY (SWA BS 5467)****Applications**

0.6 / 1 kV, XLPE insulated, single or multicore, galvanised steel wire armoured cables are used in generally underground where high tensile stresses and mechanical protection are needed during the operation.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	PVC
Armour	Round galvanised steel wires
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0271, BS 5467
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4150001	1x10	11.70	316	P4150008	1x120	23.00	1740
P4150002	1x16	12.90	410	P4150009	1x150	26.00	2280
P4150003	1x25	13.90	540	P4150010	1x185	29.00	2740
P4150004	1x35	15.00	665	P4150011	1x240	31.50	3360
P4150005	1x50	16.80	820	P4150012	2X1.5	12.40	300
P4150006	1x70	19.00	1150	P4150013	2X2.5	13.80	375
P4150007	1x95	21.70	1500	P4150014	2X4.0	15.00	430

N2XRY (SWA BS 5467)

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4150015	2X6.0	15.50	530
P4150016	2X10	18.00	684
P4150017	2X16	20.50	990
P4150018	2X25	23.50	1368
P4150019	2X35	27.00	1856
P4150020	3X1.5	12.70	325
P4150021	3X2.5	14.50	418
P4150022	3X4.0	15.20	494
P4150023	3X6.0	16.80	603
P4150024	3X10	19.30	867
P4150025	3X16	21.60	1160
P4150026	3X25	25.60	1800
P4150027	3X35	28.60	2200
P4150028	3X50	31.40	2808
P4150029	3X70	36.00	3627
P4150030	3X95	42.00	5074
P4150031	3X120	44.50	5920
P4150032	3X150	50.00	7659
P4150033	3X185	56.10	9220
P4150034	3X240	63.00	11811

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4150035	4X1.5	13.50	370
P4150036	4X2.5	15.00	500
P4150037	4X4.0	16.40	570
P4150038	4X6.0	18.80	800
P4150039	4X10	21.00	1043
P4150040	4X16	23.70	1409
P4150041	4X25	27.50	2125
P4150042	4X35	30.20	2633
P4150043	5X1.5	14.50	424
P4150044	5X2.5	16.50	530
P4150045	5X4.0	17.50	644
P4150046	5X6.0	20.00	917
P4150047	5X10	22.70	1200
P4150048	5X16	26.50	1785
P4150049	5X25	30.50	2485
P4150050	5X35	33.60	3100
P4150051	7X1.5	15.50	480
P4150052	7X2.5	17.60	610
P4150053	12X1.5	20.00	780
P4150054	12X2.5	22.30	1023

**N2XRH (LSF SWA BS 6724)****Applications**

0.6 / 1 kV, XLPE insulated single or multicore, halogen free, flame retardant cables with steel wire armour are used in highly populated buildings such as tall buildings, shopping malls hospitals, schools etc., where there is risk of fire and extra need for mechanical protection.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	LSOH
Armour	Round galvanised steel wire
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0271
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6450001	1x10	11.70	316	P6450007	1x95	21.70	1500
P6450002	1x16	12.90	410	P6450008	1x120	23.00	1740
P6450003	1x25	13.90	540	P6450009	1x150	26.00	2280
P6450004	1x35	15.00	665	P6450010	1x185	29.00	2740
P6450005	1x50	16.80	820	P6450011	1x240	31.50	3360
P6450006	1x70	19.00	1150	P6450012	2X1.5	12.40	300

N2XRH (LSF SWA BS 6724)

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6450013	2X2.5	13.80	375	P6450034	3X240	63.00	11811
P6450014	2X4.0	15.00	430	P6450035	4X1.5	13.50	370
P6450015	2X6.0	15.50	530	P6450036	4X2.5	15.00	500
P6450016	2X10	18.00	684	P6450036	4X4.0	16.40	570
P6450017	2X16	20.50	990	P6450038	4X6.0	18.80	800
P6450018	2X25	23.50	1368	P6450039	4X10	21.00	1043
P6450019	2X35	27.00	1856	P6450040	4X16	23.70	1409
P6450020	3X1.5	12.70	325	P6450041	4X25	27.50	2125
P6450021	3X2.5	14.50	418	P6450042	4X35	30.20	2633
P6450022	3X4.0	15.20	494	P6450043	5X1.5	14.50	424
P6450023	3X6.0	16.80	603	P6450044	5X2.5	16.50	530
P6450024	3X10	19.30	867	P6450045	5X4.0	17.50	644
P6450025	3X16	21.60	1160	P6450046	5X6.0	20.00	917
P6450026	3X25	25.60	1800	P6450047	5X10	22.70	1200
P6450027	3X35	28.60	2200	P6450048	5X16	26.50	1785
P6450028	3X50	31.40	2808	P6450049	5X25	30.50	2485
P6450029	3X70	36.00	3627	P6450050	5X35	33.60	3100
P6450030	3X95	42.00	5074	P6450051	7X1.5	15.50	480
P6450031	3X120	44.50	5920	P6450052	7X2.5	17.60	610
P6450032	3X150	50.00	7659	P6450053	12X1.5	20.00	780
P6450033	3X185	56.10	9220	P6450054	12X2.5	22.30	1023

**N2XBH****Applications**

0.6 / 1 kV, halogen free galvanised steel tape armoured power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers. These cables are for applications where needed mechanical protection.

Construction

Conductor	Solid or stranded annealed copper wire (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	LSOH
Armour	Galvanised steel tape
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0271
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6500001	2X1.5 re	12.70	290	P6500006	2X16	20.00	839
P6500002	2X2.5 re	13.50	333	P6500007	2X25	23.20	1259
P6500003	2X4.0 re	14.50	392	P6500008	2X35	25.80	1160
P6500004	2X6.0 re	15.40	462	P6500009	3X1.5 re	13.50	340
P6500005	2X10	17.90	630	P6500010	3X2.5 re	14.00	380

N2XBH

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6500011	3X4.0 re	15.00	450	P6500032	3X185	52.80	7914
P6500012	3X6.0 re	16.00	534	P6500033	3X240	59.00	10010
P6500013	3X10	19.00	750	P6500034	4X1.5 re	14.00	350
P6500014	3X16	21.10	1000	P6500035	4X2.5 re	14.90	423
P6500015	3X16+10	19.40	1100	P6500036	4X4.0 re	15.70	510
P6500016	3X25+16	21.10	1600	P6500037	4X6.0 re	17.00	622
P6500017	3X35+16	23.40	1900	P6500038	4X10	20.50	870
P6500018	3X50+25	26.00	2490	P6500039	4X16	22.70	1200
P6500019	3X70+35	30.00	3410	P6500040	4X25	25.90	1716
P6500020	3X95+50	35.80	4790	P6500041	4X35	28.50	2161
P6500021	3X120+70	37.40	5800	P6500042	5X1.5 re	14.80	410
P6500022	3X150+70	41.50	7000	P6500043	5X2.5 re	15.50	483
P6500023	3X185+95	46.50	8708	P6500044	5X4.0 re	16.90	597
P6500024	3X240+120	51.70	10998	P6500045	5X6.0 re	18.50	734
P6500025	3X25	24.00	1430	P6500046	5X10	22.00	1050
P6500026	3X35	26.40	1800	P6500047	5X16	24.40	1450
P6500027	3X50	29.00	2275	P6500048	7X1.5 re	15.40	463
P6500028	3X70	33.50	3060	P6500049	7X2.5 re	16.90	550
P6500029	3X95	40.00	4390	P6500050	12X1.5 re	19.00	664
P6500030	3X120	42.80	5164	P6500051	12X2.5 re	21.00	800
P6500031	3X150	46.50	6400				



N2XCH



Applications

0.6 / 1 kV, XLPE insulated cables with copper concentric conductors and tape are used in outdoor and underground applications. Concentric conductor can be used as neutral, protective or earth and connection monitoring the impacts on the cable through a control switch or a relay. These halogen free cables power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wire (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	LSOH
Concentric layer	Copper wire and copper tape
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0276-604
Flame Test	IEC / TS / BS / EN 60332-3-22
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6550001	2X1.5/1.5	12.80	232	P6550005	2X10/10	18.90	583
P6550002	2X2.5/2.5	13.50	250	P6550006	2X16 /16	21.00	750
P6550003	2X4.0/4.0	14.80	325	P6550007	2X25/16	23.80	1086
P6550004	2X6.0/6.0	15.50	400	P6550008	2X35/16	25.80	1337

N2XCH

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6550009	3X1.5/1.5	13.30	229	P6550026	4X4.0/4.0	16.00	410
P6550010	3X2.5 /2.5	14.00	282	P6550027	4X6.0/6.0	17.30	620
P6550011	3X4.0/4.0	15.10	345	P6550028	4X10/10	21.00	778
P6550012	3X6.0/6.0	16.30	450	P6550029	4X16/16	23.60	1100
P6550013	3X10/10	20.00	674	P6550030	4X25/16	27.00	1591
P6550014	3X16/16	22.30	893	P6550031	4X35/16	29.80	2004
P6550015	3X25/16	25.00	1340	P6550032	5X1.5 /1.5	14.90	290
P6550016	3X35/16	27.40	1650	P6550033	5X2.5 /2.5	15.80	380
P6550017	3X50/25	30.50	2164	P6550034	5X4.0/4.0	17.00	475
P6550018	3X70/35	34.40	2986	P6550035	5X6.0 /6.0	18.50	620
P6550019	3X95/50	40.00	4020	P6550036	5X10/10	23.00	916
P6550020	3X120/70	43.00	4965	P6550037	5X16/16	25.50	1260
P6550021	3X150/70	48.00	6050	P6550038	7X1.5/1.5	15.80	357
P6550022	3X185/95	54.40	7624	P6550039	7X2.5 /2.5	17.00	436
P6550023	3X240/120	60.60	9768	P6550040	12X1.5 /1.5	18.80	490
P6550024	4X1.5/1.5	13.90	250	P6550041	12X2.5 /2.5	20.50	650
P6550025	4X2.5/2.5	15.00	330				

**N2XBY****Applications**

0.6 / 1 kV, galvanised steel tape armoured cables are used in generally underground where high tensile stresses and mechanical protection are needed during the operation.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	PVC
Armour	Galvanised steel tape
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0271
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4100001	2X1.5 re	12.70	290	P4100005	2X10	17.90	630
P4100002	2X2.5 re	13.50	333	P4100006	2X16	20.00	839
P4100003	2X4.0 re	14.50	392	P4100007	2X25	23.20	1259
P4100004	2X6.0 re	15.40	462	P4100008	2X35	25.80	1160

N2XBY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4100009	3X1.5 re	13.50	340	P4100031	3X150	46.50	6400
P4100010	3X2.5 re	14.00	380	P4100032	3X185	52.80	7914
P4100011	3X4.0 re	15.00	450	P4100033	3X240	59.00	10010
P4100012	3X6.0 re	16.00	534	P4100034	4X1.5 re	14.00	350
P4100013	3X10	19.00	750	P4100035	4X2.5 re	14.90	423
P4100014	3X16	21.10	1000	P4100036	4X4.0 re	15.70	510
P4100015	3X16+10	19.40	1100	P4100037	4X6.0 re	17.00	622
P4100016	3X25+16	21.10	1600	P4100038	4X10	20.50	870
P4100017	3X35+16	23.40	1900	P4100039	4X16	22.70	1200
P4100018	3X50+25	26.00	2490	P4100040	4X25	25.90	1716
P4100019	3X70+35	30.00	3410	P4100041	4X35	28.50	2161
P4100020	3X95+50	35.80	4790	P4100042	5X1.5 re	14.80	410
P4100021	3X120+70	37.40	5800	P4100043	5X2.5 re	15.50	483
P4100022	3X150+70	41.50	7000	P4100044	5X4.0 re	16.90	597
P4100023	3X185+95	46.50	8708	P4100045	5X6.0 re	18.50	734
P4100024	3X240+120	51.70	10998	P4100046	5X10	22.00	1050
P4100025	3X25	24.00	1430	P4100047	5X16	24.40	1450
P4100026	3X35	26.40	1800	P4100048	7X1.5 re	15.40	463
P4100027	3X50	29.00	2275	P4100049	7X2.5 re	16.90	550
P4100028	3X70	33.50	3060	P4100050	12X1.5 re	19.00	664
P4100029	3X95	40.00	439	P4100051	12X2.5 re	21.00	800
P4100030	3X120	42.80	5164				

**N2XCY****Applications**

0.6 / 1 kV, XLPE insulated cables with copper concentric conductors and tape are used in outdoor and underground applications. Concentric conductor can be used as neutral, protective or earth and connection monitoring the impacts on the cable through a control switch or a relay.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	XLPE
Filler	PVC
Armour	Copper wires and copper tape
Outer Sheath	PVC
Reference Standards	TS IEC 60502-1, DIN VDE 0276-603
Flame Test	IEC / EN / BS / DIN 60332-1-2 (VDE 0482-332-1-2)

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4050001	2X1.5/1.5	12.80	232	P4050005	2X10/10	18.90	689
P4050002	2X2.5/2.5	13.50	279	P4050006	2X16 /16	21.00	830
P4050003	2X4.0/4.0	14.80	353	P4050007	2X25/16	23.80	1165
P4050004	2X6.0/6.0	15.50	425	P4050008	2X35/16	25.80	1460

N2XCY

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P4050009	3X1.5/1.5	13.40	240	P4050026	4X4.0/4.0	16.00	550
P4050010	3X2.5 /2.5	14.00	300	P4050027	4X6.0/6.0	17.50	810
P4050011	3X4.0/4.0	15.10	390	P4050028	4X10/10	21.00	978
P4050012	3X6.0/6.0	16.30	479	P4050029	4X16/16	23.60	1200
P4050013	3X10/10	20.00	725	P4050030	4X25/16	27.00	1668
P4050014	3X16/16	22.30	960	P4050031	4X35/16	29.80	2104
P4050015	3X25/16	25.00	1400	P4050032	5X1.5 /1.5	15.00	310
P4050016	3X35/16	27.40	1740	P4050033	5X2.5 /2.5	15.80	400
P4050017	3X50/25	30.50	2280	P4050034	5X4.0/4.0	17.00	500
P4050018	3X70/35	34.40	3120	P4050035	5X6.0 /6.0	18.50	634
P4050019	3X95/50	40.00	4230	P4050036	5X10/10	23.00	976
P4050020	3X120/70	43.00	5200	P4050037	5X16/16	25.50	1319
P4050021	3X150/70	48.00	6330	P4050038	7X1.5/1.5	16.00	463
P4050022	3X185/95	54.40	7994	P4050039	7X2.5 /2.5	17.00	516
P4050023	3X240/120	60.60	10210	P4050040	12X1.5 /1.5	18.80	600
P4050024	4X1.5/1.5	13.90	280	P4050041	12X2.5 /2.5	21.00	700
P4050025	4X2.5/2.5	15.00	350				

**FireKab N2XH FE180****Applications**

0.6 / 1 kV, FireKab halogen free, fire resistant power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC /BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	Mica tape and XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	TS IEC 60502-1, DIN VDE 0276-604
Flame Test	IEC / TS / BS / EN 60332-3-22, IEC 60331
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6600001	1X1.5 re	6.20	55	P6600011	1X95	17.70	1023
P6600002	1X2.5 re	6.50	65	P6600012	1X120	19.00	1224
P6600003	1X4.0 re	7.00	84	P6600013	1X150	21.00	1540
P6600004	1X6.0 re	7.40	111	P6600014	1X185	23.50	1895
P6600005	1X10	8.60	162	P6600015	1X240	26.50	2440
P6600006	1X16	9.90	220	P6600016	1X300	28.90	3013
P6600007	1X25	11.0	325	P6600017	2X1.5 re	10.80	150
P6600008	1X35	12.20	420	P6600018	2X2.5 re	11.50	184
P6600009	1X50	13.50	539	P6600019	2X4.0 re	12.50	233
P6600010	1X70	15.30	740	P6600020	2X6.0 re	13.50	291

FireKab N2XH FE180

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6600021	2X10	15.70	443	P6600064	4X10	18.50	675
P6600022	2X16	17.90	620	P6600065	4X16	21.00	950
P6600023	2X25	21.50	896	P6600066	4X25	25.30	1407
P6600024	2X35	23.50	1125	P6600067	4X35	28.00	1827
P6600025	2X50	26.30	1450	P6600068	4X50	31.40	2400
P6600026	2X70	29.90	2003	P6600069	4X70	36.70	3400
P6600027	2X95	35.00	2750	P6600070	4X95	42.00	4600
P6600028	2X120	37.20	3290	P6600071	4X120	45.50	5550
P6600029	2X150	41.70	4100	P6600072	4X150	50.00	7000
P6600030	2X185	47.00	5166	P6600073	4X185	57.20	8700
P6600031	2X240	53.00	6630	P6600074	4X240	64.00	11180
P6600032	2X300	56.90	8100	P6600075	4X300	69.50	13900
P6600033	3X1.5 re	11.30	176	P6600076	5X1.5 re	13.00	240
P6600034	3X2.5 re	12.00	220	P6600077	5X2.5 re	14.20	307
P6600035	3X4.0 re	13.00	277	P6600078	5X4.0 re	15.30	405
P6600036	3X6.0 re	14.20	350	P6600079	5X6.0 re	16.50	518
P6600037	3X10	17.00	550	P6600080	5X10	20.40	806
P6600038	3X16	20.00	720	P6600081	5X16	23.50	1150
P6600039	3X16+10	21.10	960	P6600082	5X25	27.50	1690
P6600040	3X25+16	24.30	1410	P6600083	5X35	30.90	2180
P6600041	3X35+16	26.50	1728	P6600084	5X50	34.70	2875
P6600042	3X50+25	29.50	2326	P6600085	5X70	40.70	4066
P6600043	3X70+35	36.00	3200	P6600086	5X95	46.80	5576
P6600044	3X95+50	41.10	4400	P6600087	5X120	50.10	7012
P6600045	3X120+70	42.90	5540	P6600088	5X150	55.80	8465
P6600046	3X150+70	47.40	6584	P6600089	5X185	63.20	10514
P6600047	3X185+95	53.60	8340	P6600090	5X240	71.00	13520
P6600048	3X240+120	59.70	10730	P6600091	5X300	77.60	16617
P6600049	3X300+150	64.50	13170	P6600092	7X1.5 re	14.00	289
P6600050	3X25	22.50	1100	P6600093	7X2.5 re	15.50	360
P6600051	3X35	25.00	1424	P6600094	12X1.5 re	17.80	430
P6600052	3X50	27.80	1924	P6600095	12X2.5 re	19.50	575
P6600053	3X70	32.60	2600	P6600096	15X1.5 re	19.40	580
P6600054	3X95	37.50	3565	P6600097	15X2.5 re	21.50	774
P6600055	3X120	40.10	4290	P6600098	19X1.5 re	20.40	670
P6600056	3X150	47.50	5450	P6600099	19X2.5 re	22.50	902
P6600057	3X185	51.00	6680	P6600100	21X1.5 re	21.50	736
P6600058	3X240	57.00	8680	P6600101	21X2.5 re	23.50	987
P6600059	3X300	62.00	10713	P6600102	27X1.5 re	24.60	905
P6600060	4X1.5 re	12.10	212	P6600103	27X2.5 re	26.50	1190
P6600061	4X2.5 re	12.90	260	P6600104	30X1.5 re	25.20	990
P6600062	4X4.0 re	14.10	330	P6600105	30X2.5 re	27.50	1350
P6600063	4X6.0 re	15.00	420				



FireKab N2XH FE180 E30



Applications

0.6 / 1 kV, FireKab halogen free, fire resistant power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	Mica tape / XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	DIN VDE 0276-604
Flame Test	DIN 4102-12, IEC / TS / BS / EN 60332-3-22, IEC 60331
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6650001	2X1.5 re	12.80	213	P6650008	2X35	25.50	1279
P6650002	2X2.5 re	13.50	258	P6650009	2X50	28.00	1590
P6650003	2X4.0 re	14.50	300	P6650010	2X70	31.50	2130
P6650004	2X6.0 re	15.50	363	P6650011	2X95	37.20	2923
P6650005	2X10	18.00	537	P6650012	2X120	39.50	3437
P6650006	2X16	20.10	714	P6650013	2X150	43.80	4246
P6650007	2X25	23.00	980	P6650014	2X185	49.00	5287

FireKab N2XH FE180 E30

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6650015	2X240	55.50	6788	P6650046	4X4.0 re	16.50	440
P6650016	2X300	60.70	8340	P6650047	4X6.0 re	17.70	528
P6650017	3X1.5 re	13.50	245	P6650048	4X10	20.70	810
P6650018	3X2.5 re	14.00	299	P6650049	4X16	23.60	1100
P6650019	3X4.0 re	15.30	365	P6650050	4X25	27.00	1559
P6650020	3X6.0 re	16.00	440	P6650051	4X35	30.00	2010
P6650021	3X10	19.40	655	P6650052	4X50	33.80	2650
P6650022	3X16	21.50	896	P6650053	4X70	38.70	3629
P6650023	3X16+10	23.40	1030	P6650054	4X95	45.00	4965
P6650024	3X25+16	26.30	1448	P6650055	4X120	48.00	5860
P6650025	3X35+16	28.50	1770	P6650056	4X150	53.00	7300
P6650026	3X50+25	32.20	2400	P6650057	4X185	60.00	9041
P6650027	3X70+35	36.50	3184	P6650058	4X240	67.00	11620
P6650028	3X95+50	42.00	4350	P6650059	4X300	73.30	14300
P6650029	3X120+70	45.50	5300	P6650060	5X1.5 re	15.50	350
P6650030	3X150+70	49.00	6300	P6650061	5X2.5 re	16.80	423
P6650031	3X185+95	55.50	7900	P6650062	5X4.0 re	18.00	530
P6650032	3X240+120	62.00	10030	P6650063	5X6.0 re	19.50	669
P6650033	3X300+150	67.60	12470	P6650064	5X10	23.20	986
P6650034	3X25	24.20	1240	P6650065	5X16	26.10	1350
P6650035	3X35	26.90	1564	P6650066	5X25	30.00	1900
P6650036	3X50	31.00	2130	P6650067	5X35	33.30	2450
P6650037	3X70	34.00	2760	P6650068	5X50	37.50	3186
P6650038	3X95	40.40	3823	P6650069	5X70	42.90	4400
P6650039	3X120	42.50	4520	P6650070	5X95	50.00	6000
P6650040	3X150	47.00	5700	P6650071	5X120	53.00	7140
P6650041	3X185	53.00	6947	P6650072	5X150	59.00	9000
P6650042	3X240	60.00	8980	P6650073	5X185	66.00	11024
P6650043	3X300	65.60	11018	P6650074	5X240	74.10	14200
P6650044	4X1.5 re	14.50	290	P6650075	5X300	81.00	17437
P6650045	4X2.5 re	15.30	360				

**FireKab N2XH FE180 E90****Applications**

0.6 / 1 kV, FireKab halogen free, fire resistant power cables are used in intelligent or semi-intelligent buildings which has high dense human population like hospitals, cinemas, theatres, schools, shopping centers.

Construction

Conductor	Solid or stranded annealed copper wires (IEC / BS / TS / EN 60228, VDE 0295 Class 1 / Class 2)
Insulation	Mica tape / XLPE
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	DIN VDE 0276-604
Flame Test	DIN 4102-12, IEC / TS / BS / EN 60332-3-22, IEC 60331
Smoke Density	TS / BS / IEC / EN 61034-1+2
Corrosive Gases Measurement	IEC 60754-2, BS / EN 50267

Technical and Electrical Properties (20 °C)

Operating Voltage	0.6 / 1 kV
Test Voltage (50 Hz)	3.5 kV
Maximum Operating Temperature	90 °C
Minimum Bending Radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6700001	1X1.5 re	7.30	70	P6700009	1X50	15.20	598
P6700002	1X2.5 re	8.00	90	P6700010	1X70	17.00	825
P6700003	1X4.0 re	8.20	110	P6700011	1X95	19.50	1115
P6700004	1X6.0 re	8.90	140	P6700012	1X120	20.40	1319
P6700005	1X10	10.00	200	P6700013	1X150	22.80	1660
P6700006	1X16	11.30	268	P6700014	1X185	25.30	1997
P6700007	1X25	12.50	374	P6700015	1X240	28.20	2630
P6700008	1X35	13.80	470	P6700016	1X300	30.60	3200

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PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6700017	2X1.5 re	13.20	240	P6700062	4X4.0 re	17.50	468
P6700018	2X2.5 re	14.00	280	P6700063	4X6.0 re	18.30	570
P6700019	2X4.0 re	15.00	330	P6700064	4X10	22.00	870
P6700020	2X6.0 re	15.90	395	P6700065	4X16	24.60	1184
P6700021	2X10	18.50	587	P6700066	4X25	28.30	1670
P6700022	2X16	20.90	772	P6700067	4X35	31.00	2080
P6700023	2X25	23.50	1070	P6700068	4X50	34.70	2740
P6700024	2X35	26.50	1311	P6700069	4X70	39.70	3750
P6700025	2X50	28.60	1680	P6700070	4X95	46.30	5106
P6700026	2X70	32.20	2230	P6700071	4X120	48.50	6050
P6700027	2X95	37.50	3080	P6700072	4X150	53.50	7500
P6700028	2X120	40.00	3600	P6700073	4X185	60.50	9300
P6700029	2X150	44.50	4460	P6700074	4X240	67.90	11950
P6700030	2X185	49.90	5553	P6700075	4X300	74.00	14620
P6700031	2X240	56.00	7100	P6700076	5X1.5 re	16.50	370
P6700032	2X300	61.00	8640	P6700077	5X2.5 re	17.50	450
P6700033	3X1.5 re	14.00	265	P6700078	5X4.0 re	19.00	570
P6700034	3X2.5 re	14.70	310	P6700079	5X6.0 re	20.50	722
P6700035	3X4.0 re	16.00	390	P6700080	5X10	24.20	1050
P6700036	3X6.0 re	16.90	480	P6700081	5X16	27.10	1450
P6700037	3X10	20.10	700	P6700082	5X25	31.00	2004
P6700038	3X16	22.50	950	P6700083	5X35	34.80	2500
P6700039	3X16+10	24.00	1100	P6700084	5X50	38.50	3280
P6700040	3X25+16	27.50	1535	P6700085	5X70	43.60	4500
P6700041	3X35+16	30.00	1838	P6700086	5X95	50.60	6150
P6700042	3X50+25	33.20	2453	P6700087	5X120	54.50	7300
P6700043	3X70+35	37.50	3280	P6700088	5X150	60.00	9120
P6700044	3X95+50	43.00	4450	P6700089	5X185	67.00	11290
P6700045	3X120+70	46.50	5500	P6700090	5X240	75.00	14450
P6700046	3X150+70	50.00	6574	P6700091	5X300	83.00	17737
P6700047	3X185+95	56.50	8300	P6700092	7X1.5 re	18.20	450
P6700048	3X240+120	62.80	10630	P6700093	7X2.5 re	19.60	549
P6700049	3X300+150	69.00	13170	P6700094	12X1.5 re	23.70	690
P6700050	3X25	25.00	1300	P6700095	12X2.5 re	25.30	856
P6700051	3X35	28.50	1624	P6700096	15X1.5 re	26.10	845
P6700052	3X50	31.00	2130	P6700097	15X2.5 re	28.00	1046
P6700053	3X70	34.70	2850	P6700098	19X1.5 re	27.00	999
P6700054	3X95	41.00	3955	P6700099	19X2.5 re	29.20	1249
P6700055	3X120	43.00	4690	P6700100	21X1.5 re	29.00	1048
P6700056	3X150	47.90	5850	P6700101	21X2.5 re	31.40	1326
P6700057	3X185	54.00	7188	P6700102	27X1.5 re	34.60	1090
P6700058	3X240	60.20	9250	P6700103	27X2.5 re	35.30	1369
P6700059	3X300	66.00	11413	P6700104	30X1.5 re	33.80	1478
P6700060	4X1.5 re	15.40	300	P6700105	30X2.5 re	36.50	1850
P6700061	4X2.5 re	16.30	390				

**FireKab NHXH FE180 E90****Applications**

0.6 / 1 kV, single and multicore, halogen free, flame retardant cables, to be used in highly populated buildings such as tall buildings, shopping malls hospitals, schools etc., where there is risk of fire. With the help of mica tape over the conductors continuity of the energy will be provided incase of fire up to the limit values stated in the standards.

Construction

Conductor	Solid or stranded annealed copper wires (IEC 60228 Class 1 / Class 2)
Insulation	Mica tape / Crosslinked HFFR compound
Filler	LSOH
Outer Sheath	LSOH
Reference Standards	DIN VDE 0276-604
Flame test	DIN 4102-12, IEC 60332-3-22 (CAT C), IEC 60331

Technical and Electrical Properties (20 °C)

Operating voltage	0.6 / 1 kV
Test voltage (50 Hz)	4 kV
Maximum Operating Temperature	90 °C
Minimum bending radius	Solid Copper Wire : 15 x Cable diameter Stranded Copper Wires : 12 x Cable diameter

PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6800001	1X1.5 re	7.30	70	P6800006	1X16	11.30	268
P6800002	1X2.5 re	8.00	90	P6800007	1X25	12.50	374
P6800003	1X4.0 re	8.20	110	P6800008	1X35	13.80	470
P6800004	1X6.0 re	8.90	140	P6800009	1X50	15.20	598
P6800005	1X10	10.00	200	P6800010	1X70	17.00	825

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PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6800011	1X95	19.50	1115	P6800042	3X50+25	33.20	2453
P6800012	1X120	20.40	1319	P6800043	3X70+35	37.50	3280
P6800013	1X150	22.80	1660	P6800044	3X95+50	43.00	4450
P6800014	1X185	25.30	1997	P6800045	3X120+70	46.50	5500
P6800015	1X240	28.20	2630	P6800046	3X150+70	50.00	6574
P6800016	1X300	30.60	3200	P6800047	3X185+95	56.50	8300
P6800017	2X1.5 re	13.20	240	P6800048	3X240+120	62.80	10630
P6800018	2X2.5 re	14.00	280	P6800049	3X300+150	69.00	13170
P6800019	2X4.0 re	15.00	330	P6800050	3X25	25.00	1300
P6800020	2X6.0 re	15.90	395	P6800051	3X35	28.50	1624
P6800021	2X10	18.50	587	P6800052	3X50	31.00	2130
P6800022	2X16	20.90	772	P6800053	3X70	34.70	2850
P6800023	2X25	23.50	1070	P6800054	3X95	41.00	3955
P6800024	2X35	26.50	1311	P6800055	3X120	43.00	4690
P6800025	2X50	28.60	1680	P6800056	3X150	47.90	5850
P6800026	2X70	32.20	2230	P6800057	3X185	54.00	7188
P6800027	2X95	37.50	3080	P6800058	3X240	60.20	9250
P6800028	2X120	40.00	3600	P6800059	3X300	66.00	11413
P6800029	2X150	44.50	4460	P6800060	4X1.5 re	15.40	300
P6800030	2X185	49.90	5553	P6800061	4X2.5 re	16.30	390
P6800031	2X240	56.00	7100	P6800062	4X4.0 re	17.50	468
P6800032	2X300	61.00	8640	P6800063	4X6.0 re	18.30	570
P6800033	3X1.5 re	14.00	265	P6800064	4X10	22.00	870
P6800034	3X2.5 re	14.70	310	P6800065	4X16	24.60	1184
P6800035	3X4.0 re	16.00	390	P6800066	4X25	28.30	1670
P6800036	3X6.0 re	16.90	480	P6800067	4X35	31.00	2080
P6800037	3X10	20.10	700	P6800068	4X50	34.70	2740
P6800038	3X16	22.50	950	P6800069	4X70	39.70	3750
P6800039	3X16+10	24.00	1100	P6800070	4X95	46.30	5106
P6800040	3X25+16	27.50	1535	P6800071	4X120	48.50	6050
P6800041	3X35+16	30.00	1838				

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PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)	PART NUMBER	CORES / SIZE (mm ²)	APPROX. CABLE DIAMETER (mm)	APPROX. CABLE WEIGHT (kg / km)
P6800072	4X150	53.50	7500	PP6800089	5X185	67.00	11290
P6800073	4X185	60.50	9300	P6800090	5X240	75.00	14450
P6800074	4X240	67.90	11950	P6800091	5X300	83.00	17737
P6800075	4X300	74.00	14620	P6800092	7X1.5 re	18.20	450
P6800076	5X1.5 re	16.50	370	P6800093	7X2.5 re	19.60	549
P6800077	5X2.5 re	17.50	450	P6800094	12X1.5 re	23.70	690
P6800078	5X4.0 re	19.00	570	P6800095	12X2.5 re	25.30	856
P6800079	5X6.0 re	20.50	722	P6800096	15X1.5 re	26.10	845
P6800080	5X10	24.20	1050	P6800097	15X2.5 re	28.00	1046
P6800081	5X16	27.10	1450	P6800098	19X1.5 re	27.00	999
P6800082	5X25	31.00	2004	P6800099	19X2.5 re	29.20	1249
P6800083	5X35	34.80	2500	P6800100	21X1.5 re	29.00	1048
P6800084	5X50	38.50	3280	P6800101	21X2.5 re	31.40	1326
P6800085	5X70	43.60	4500	P6800102	27X1.5 re	34.60	1090
P6800086	5X95	50.60	6150	P6800103	27X2.5 re	35.30	1369
P6800087	5X120	54.50	7300	P6800104	30X1.5 re	33.80	1478
P6800088	5X150	60.00	9120	P6800105	30X2.5 re	36.50	1850

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Table: 01

Conductor Resistance According to VDE 0295 and IEC / EN 228

Conductor resistance about copper conductor acc. to VDE 0295 and IEC / EN 228 20 °C for 1km in.

Conductor structure is specified by max. single wire diameter and max. conductor resistance. (Ohm / km)

Tinned Copper Wire			Bare Copper Wire		
Cross Section (mm ²)	Class 1+2	Class 5+6	Cross Section (mm ²)	Class 1+2	Class 5+6
0,14		142,0	0,14		138,0
0,25		82,0	0,25		77,8
0,34		59,0	0,34		56,0
0,50	36,70	40,1	0,50	36,00	39,0
0,75	24,80	26,7	0,75	24,50	26,0
1,00	18,20	20,00	1,00	18,10	19,50
1,50	12,20	13,70	1,50	12,10	13,30
2,50	7,56	8,21	2,50	7,41	7,98
4,00	4,70	5,09	4,00	4,61	4,95
6,00	3,11	3,39	6,00	3,08	3,30
10	1,840	1,950	10	1,830	1,910
16	1,160	1,240	16	1,150	1,210
25	0,734	0,795	25	0,727	0,780
35	0,529	0,565	35	0,524	0,554
50	0,391	0,393	50	0,387	0,386
70	0,270	0,277	70	0,2680	0,272
95	0,195	0,210	95	0,1930	0,206
120	0,154	0,164	120	0,1530	0,161
150	0,126	0,132	150	0,1240	0,129
185	0,100	0,108	185	0,0991	0,106
240	0,0762	0,0817	240	0,0754	0,0801
300	0,0607	0,0654	300	0,0601	0,0641
400	0,0475	0,0495	400	0,0470	0,0486
500	0,0369	0,0391	500	0,0366	0,0384

Calculation of conductor resistance values determined at 20 °C at different measured temperatures.

$$R_t = R_{20} \cdot (234,5 + t) / 254,5 \text{ (For Cu)}$$

t: Conductor temp. (C)

R_t: Conductor temp. (C) (Ohm / km)

R₂₀: Conductor resistance at 20 °C (ohm / km)

Values of k cofactor used for conductor resistance at 20 °C

Scaled Temperature °C	Cofactor k	Scaled Temperature °C	Cofactor k	Scaled Temperature °C	Cofactor k	Scaled Temperature °C	Cofactor k
1	1.060	11	1.036	21	0.996	31	0.959
2	1.076	12	1.032	22	0.992	32	0.955
3	1.071	13	1.028	23	0.988	33	0.952
4	1.067	14	1.024	24	0.985	34	0.948
5	1.062	15	1.020	25	0.981	35	0.945
6	1.058	16	1.016	26	0.977	36	0.941
7	1.053	17	1.012	27	0.973	37	0.938
8	1.049	18	1.006	28	0.970	38	0.934
9	1.045	19	1.004	29	0.966	39	0.931
10	1.041	20	1.000	30	0.962	40	0.928

This table is valid for copper conductors.

Table: 03

Current Carrying Capacity For Flexible Cables

(Up to 30 °C and Up to 1000 V)

Grup 1One or more single core cables
installed in condu't**Grup 2**

Sheathed and multi-core cables

Grup 3Single core cables freely installed in
air and wiring in distribution system.

Cross-Section (mm ²)	Current Carrying cap (A)	Fuse (A)	Cross-Section (mm ²)	Current Carrying cap (A)	Fuse (A)	Cross-Section (mm ²)	Current Carrying cap (A)	Fuse (A)
0.08	2.5	-	0.5	-	-	-	-	-
0.14	6.0	-	1.5	-	6.0	-	-	-
0.25	8.5	-	2.5	-	8.5	-	-	-
0.34	9	-	3.5	-	10	-	-	-
0.50	10	-	5.0	-	12	-	-	-
0.75	11	-	13	10	16	16	16	16
1.00	12	10	16	16	20	20	20	20
1.50	16	16	20	20	25	25	25	25
2.50	21	20	27	25	34	34	35	35
4.00	27	25	36	35	45	45	50	50
6.00	35	35	47	50	57	57	63	63
10	48	50	65	63	78	78	80	80
16	65	63	87	80	104	104	100	100
25	88	80	115	100	137	137	125	125
35	110	100	143	125	168	168	160	160
50	140	125	178	160	210	210	200	200
70	175	160	220	224	260	260	250	250
95	210	200	265	250	310	310	310	310
120	250	250	310	300	365	365	355	355
150	-	-	355	355	415	415	425	425
185	-	-	405	355	475	475	425	425
240	-	-	480	425	560	560	500	500

For Cables With Protective Conductor					
Number of Core	Protective Conductor	Other Conductors			
3	Yellow-Green	Blue	Brown		
4	Yellow-Green		Brown	Black	Grey
4a	Yellow-Green	Blue	Brown	Black	
5	Yellow-Green	Blue	Brown	Black	Grey

For Cables With Protective Conductor					
Number of Core	Core Colours				
2	Blue	Brown			
3		Brown	Black	Grey	
3a	Blue	Brown	Black		
4	Blue	Brown	Black	Grey	
5	Blue	Brown	Black	Grey	Black

HARMONISED CABLES, EXPLANATION OF SYMBOLS**Basic Type**

H	Harmonized types
A	Approved national design

Rated Voltage

01	100 / 100 V
03	300 / 300 V
05	300 / 500 V
07	450 / 750 V
11	600 / 1000 V

Insulation Material

V	PVC (Polyvinyl chloride)
V2	PVC, up to + 90° C
V3	PVC, for low temperatures
B	EPR (Ethylene-propylene rubber)
E	PE (Polyethylene)
X	XLPE (cross-linked PE)
R	Rubber
S	Silicone Rubber

Sheath or Braiding Materials

V	PVC (Polyvinyl chloride)
V2	PVC, up to + 90° C
V3	PVC, for low temperatures
V5	PVC, oil resistant
R	Rubber
N	Chloroprene
Q	PU (polyurethane)
J	Glass fibre braiding
T	Textile braiding

Special Construction

C4	Screen of copper wire braiding
H	Flat divisible cables
H2	Flat non-divisible cables
H6	Flat non-divisible cables, for elevators
H8	Spiral cables

Conductor Type

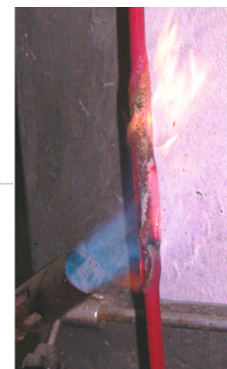
U	Single wire round conductor
R	Multiple wire round conductor
K	Fine strands (for cables for fixed installation)
F	Fine strands (for flexible cables)
H	Extra fine strands
Y	Tinsel wire conductor
D	Fine strands for welding cables
E	Extra fine strands for welding cables

Protective Earth Conductor

X	Without protective conductor
G	With protective conductor

1.0. Vertical Flame Test For Single Cable

1.1. Standards:	IEC 60332-1 / TS EN 60332-1	
1.2. Test Method / Pass Criteria:	The cable is fixed from both sides vertically. The flame source is applied on the cable in the position where it has 45° angle from the ground. If the original sheath is not harmed in the end of the test duration which depends on the cable diameter, the cable passes the test.	
1.3. Test Duration:	Cable Diameter (mm)	Flame Application Duration (s)
	$D \leq 25$	60 + 2
	$25 < D \leq 50$	120 + 2
	$50 < D \leq 75$	240 + 2
	$D > 75$	480 + 2



2.0. Vertical Flame Test For Bunched Cable

2.1. Standards	:	IEC 60332-3-22 (CAT-A) / IEC 60332-3-23 (CAT-B) / IEC 60332-3-24 (CAT-C)			
		Category	A	B	C
		Conductor Cross Section (mm ²)	≤ 35	≤ 35	≤ 35
		Non metallic volume (l/m)	7	3.5	1.5
		Maximum Width of standard sample ladder :300 mm	≥ 1	≥ 1	≥ 1
2.2. Test Conditions	:	Maximum Width of wide sample ladder :300 mm	-	1	-
		The other of the sample	Touches	Touches	Touches
		Flame duration (min)	40	40	40



2.3. Test Method / Duration / Pass Criteria :	After the test the samples are cleaned and the length of the harmed sheath is detected and if the harmed part does not exceed 2.5 meters, the products passes the test.		
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3.0. Circuit Integrity Test In Fire During 3 Hours (FE180)

3.1. Standards :	BS 6387C, DIN VDE 60331 Part 841, TS IEC 60331-21		
3.2. Test Temperature and Duration :	Temperature	60331 750 ± 40 °C	6387 C 950 ± 40 °C
	Duration	3 hours	3 hours

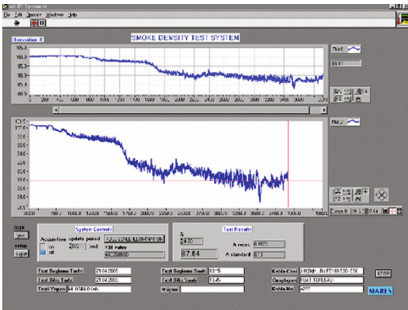


3.3. Description / Test Method :	A cable sample as long as 1200 mm is connected to electricity by removing from each ends the sheath or other mmaterial which covers the cores. The cable is burned as parallel and 75 mm over the burner with the temperature and duration depending on the cable's class with nominal voltage during 3 hours.		
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4.0. Smoke Density Tests

4.1. Standards : TS EN 61034 -1 / 2 (IEC 61034)

		Pieces	
4.2. Number of Sample :	Cable Diameter		
	D (mm)	Cable	Bunches
	D > 40	1	-
	20 < D ≤ 40	2	-
	10 < D ≤ 20	3	-
	5 < D ≤ 10	N ₁	-
	2 < D ≤ 5	-	N ₂
N ₁ = 45 / D			
N ₂ = 45 / 3D			



For every bunch, 7 pieces must be bent and tied as 2 rounds with the width of 20D and 30D

4.3. Test Method : The cable bundle is placed inside the burning chamber compliant with the standards. When the light in the room becomes stable the alcoholic mixture is burned and the fan is run. As the smoke density increases in the room, the decreasing visibility is followed in the test is ended in 40.th minute.

4.4. Test Pass Criteria : The minimum light transmission should be 60 %.

5.0. pH and Conductivity Measurement Test

For Halogen Free Materials

5.1. Standards : TS EN 50267-2-2 / IEC 60754-2

5.2. Description / Test Method : This is used for pH and conductivity measurement of halogen free materials. The test consists of two tests which is with and without sample. The oven is set to reach 935 °C in each case the halogen gas amount is detected inside the liquid mixed with the emitted gas, with the help of certain chemicals. Samples are prepared according to the conditions in the standard and burned in the halogenmeter. The gas is collected from the pipes to the tubes. The liquid in the both tubes are transferred to another container and the pH and conductivity values are tested according to the below criteria.



5.3. Test Pass Criteria : pH ≥ 4.3 / conductivity ≤ 10 μ S / mm

Cross-Section and Diameter Calculation of Flexible Conductor

$$A = d^2 \times 0,785 \times n$$

A= Conductor cross-section in mm²

Z= Conductor diameter in mm

n= Number of individual wires

$$Z = \sqrt{1,34 \times n \times d}$$

d= Individual wire diameter in mm

Conductor Resistance

$$R = \frac{\rho \times L}{S}$$

$$R = \frac{L}{\kappa \times S}$$

A= Conductor resistance in Ω

G= Electrical conductivity in S

S= Conductor cross-section in mm²

L= Length of conductor in m

 ρ = Specific resistance (Rho) κ = Conductivity (Kappa)

$$G = \frac{1}{R}$$

$$\rho = \frac{1}{\kappa}$$

Example:

Given
RequiredL = 500 m, R = 120 Ω
 κ = ConductivityS = 0,50 mm²

$$\text{Calculation route } \kappa = \frac{L}{R \times S} = \frac{500 \text{ m}}{120 \Omega \times 0,50 \text{ mm}^2} = 8,33 \frac{\text{m}}{\Omega \times \text{mm}^2}$$

Ohm Law

$$I = \frac{U}{R}$$

I = Electrical current in A

U = Electrical voltage in V

R = Electrical resistance in Ω

d = Individual wire (mm)

Example GivenU = 220 V R = 600 Ω

$$\text{Calculation route } I = \frac{U}{R} = \frac{200 \text{ V}}{600 \Omega} = 0,37 \text{ A}$$

Characteristic Impedance

$$Z = \sqrt{L/C}$$

Z = Characteristic impedance in (Ω)

L = Inductance (H/km)

C = CapaCity (F/km)

$$Z = \frac{60}{\sqrt{\epsilon_r}} \times \ln \frac{D}{d}$$

ϵ_r = Dielectric constant

$\ln$ = Natural logarithm

D = Insulation (core) diameter

d = Diameter of inner conductor

Effective Capacitance

$$C = \frac{\epsilon_r}{18 \times \ln \frac{D}{d}}$$

C = CapaCity (nf / m)

ϵ_r = Dielectric constant

D = Insulation (core) diameter

d = Diameter of inner conductor

$\ln$ = Natural logarithm

Installation in series of...

Resistance

$$R = R_1 + R_2 + R_3 + \dots$$

Capacitance

$$\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} + \dots$$

Inductance

$$L = L_1 + L_2 + L_3 + \dots$$

Installation in paralel of...

$$\text{Resistance } \frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$$

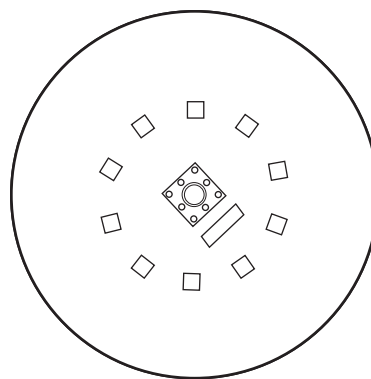
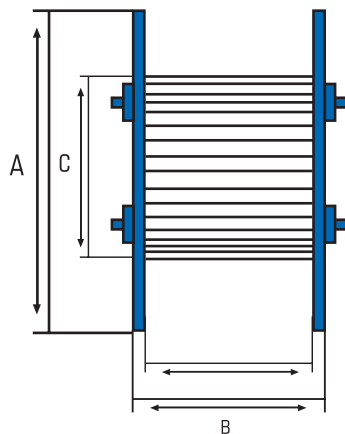
$$\text{Two Resistance } R = \frac{R_1 \times R_2}{R_1 + R_2}$$

$$\text{Capacitance } C = C_1 + C_2 + C_3 + \dots$$

$$\text{Inductance } \frac{1}{L} = \frac{1}{L_1} + \frac{1}{L_2} + \frac{1}{L_3} + \dots$$

Power of Ten

10^{12}	Tera	T	1 000 000 000 000
10^9	Giga	G	1 000 000 000
10^6	Mega	M	1 000 000
10^3	Kilo	k	1 000
10^2	Hekto	h	100
10^1	Deka	da	10
10^0			1
10^{-1}	Dezi	d	0,1
10^{-2}	Centi	c	0,01
10^{-3}	Milli	m	0,001
10^{-6}	Mikro	m	0,000 001
10^{-9}	Nano	n	0,000 000 001
10^{-12}	Piko	p	0,000 000 000 001



Drum Type	A (mm)	C (mm)	B (mm)	Max. Load Capacity (mm)
T - 600	600	300	510	220
T- 700	700	350	510	300
T- 750	750	350	510	350
T- 800	800	400	510	400
T- 850	850	400	510	450
T- 900	900	450	670	650
T- 1000	1000	500	670	750
T- 1100	1100	550	681	950
T- 1150	1150	560	750	2000
T- 1200	1200	600	850	1400
T- 1300	1300	650	800	1550
T- 1400	1400	700	900	2000
T- 1500	1500	750	920	2300
T- 1600	1600	800	1100	3000
T- 1700	1700	850	1100	3500
T- 1800	1800	1000	1130	4000
T- 2000	2000	1200	1100	5000
T- 2200	2200	1400	1370	6500
T- 2400	2400	1500	1385	7000

Table: 11

Voltage Drop Table

Section (mm²)		1.5	2.5	4	6	10	16	25	35
Power	Current								
KW	A								
1	1.7	363	605	968	1452				
2	3.4	181	302	484	726	1210			
3	5.1	121	202	323	484	806	1290		
4	6.8	91	151	242	363	605	968	1512	3 % Voltage drop limit
5	8.5	73	121	194	290	484	774	1210	
6	10	60	101	161	242	403	645	1008	
7	12	52	86	138	207	346	553	864	1210
8	14	45	76	121	181	302	484	756	1058
9	15	40	67	108	161	269	430	672	941
10	17	36	60	97	145	242	387	605	847
12	20	30	50	81	121	202	323	504	706
14	24	26	43	69	104	173	276	432	605
16	27		38	60	91	151	242	378	529
18	30		34	54	81	134	215	336	470
20	34		30	48	73	121	194	302	423
25	42			39	58	97	155	242	339
30	51				48	81	129	202	282
35	59				41	69	111	173	242
40	68					60	97	151	212
45	76					54	86	134	188
50	85						77	121	169
60	101						65	101	141
70	118							86	121
80	135							76	106
90	152								94
100	169								85
120	203								
140	237								
160	270								
180	304	Current carrying limit warming							
200	338								
225	380								
250	423								
275	465								
300	507								
350	592								
400	676								

Voltage drop max. 3 %
Voltage 3 phases 380 V
COS Ø =0,9

Section (mm²)		50	70	95	120	150	185	240	300
Power	Current								
KW	A								
1	1.7								
2	3.4								
3	5.1								
4	6.8								
5	8.5								
6	10								
7	12								
8	14								
9	15	1344							
10	17	1210							
12	20	1008							
14	24	864	1210						
16	27	756	1058						
18	30	672	941	1277					
20	34	605	847	1149					
25	42	484	677	919	1161				
30	51	403	565	766	968	1210			
35	59	346	484	657	829	1037			
40	68	302	423	575	726	907	1119		
45	76	269	376	511	645	806	995		
50	85	242	339	460	581	726	895	1161	
60	101	202	282	383	484	605	746	968	1210
70	118	173	242	328	415	518	639	829	1037
80	135	151	212	287	363	454	559	726	907
90	152	134	188	255	323	403	497	645	806
100	169	121	169	230	290	363	448	581	726
120	203	101	141	192	242	302	373	484	605
140	237		121	164	207	259	320	415	518
160	270			144	181	227	280	363	454
180	304	Current carrying limit warming		128	161	202	249	323	403
200	338				145	181	224	290	363
225	380					161	199	258	323
250	423					145	179	232	290
275	465						163	211	264
300	507							194	242
350	592								207
400	676								

Voltage drop max. 3 %
Voltage 3 phases 380 V
COS Ø =0,9

The drums have to be carried carefully. Wrong carriage methods can easily result in breaking of the drums or seen or unseen damage on the cable.

The unseen damages is the biggest problem for the unuseable cables. For this reason some basic rules must be followed.

If a wooden drum is handled as shown here, it is under 2M KABLO guarantee in terms of being undamaged and useability for 18 months. The guarantee is invalid in the case when the drums show signs of damage caused by handling.

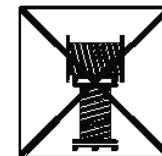
Please refer to the cable catalogues for special handling conditions and temperature range as well as the general rules mentioned here.

- The cables must be protected during handling and storage. Special handling procedure may be required.
- Wooden drums must be in vertical position during handling and storage.

Drums must be protected against the slope on the way with wooden wedges.

Vertical**Horizontal**

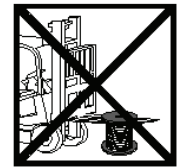
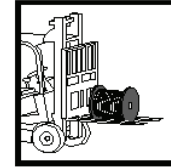
The drums on pallets must be stabilized vertically.



The drums on pallets must be stabilized vertically.

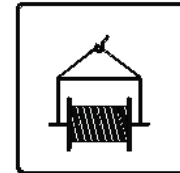
- A rotten or worn out drum or a drum that shows signs of damage must be controlled.
- The cable should be carried and stabilized with appropriate equipment. Special care must be given when placing and storing drums into a container.
- To best fill the space inside the container / truck, one pallet may be placed on top of the other. In this case a protective material will be placed on top of the below pallet to prevent possible damage.
- The drums can only be carried with a forklift from both sides. The fork can not touch the cable or the protective layer around the cable.
- The drums can not be carried from any of the sides alone.

The forklift's fork can lift the drum from both sides at the same time. It can not use only one side for carriage and should not touch the cable or the protective layer around the cable.



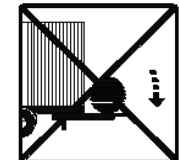
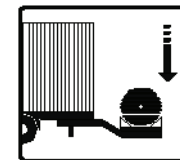
- If the drum is lifted by a crane or an axle, pressure to the sides should be avoided.

The holder of the axle should be parallel to each other.



- Appropriate equipment should be used during loading or unloading of the drum, to avoid damages. The drums should not be fallen off a vehicle or a ramp.

Appropriate equipment should be used, the cable should not fall.



Tighten the loose screws before moving the drums.

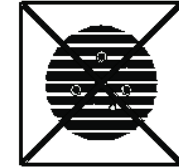
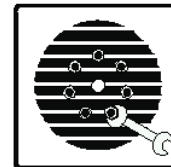
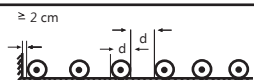
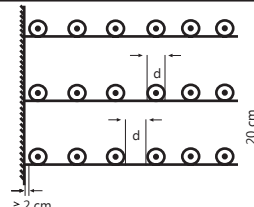
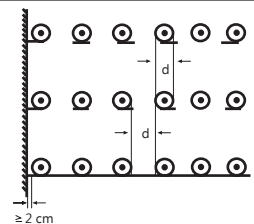
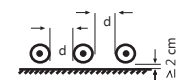
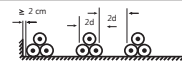
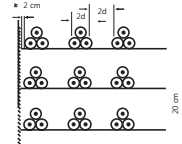
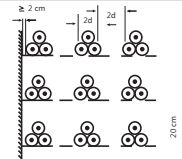
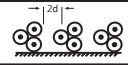
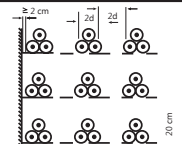
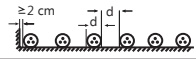
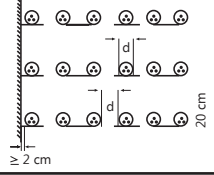
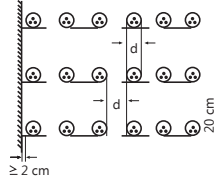
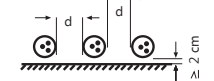
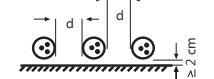
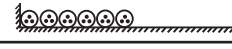
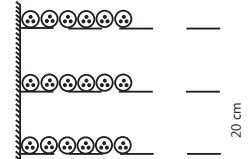
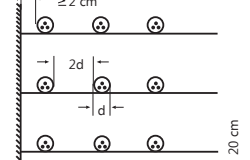


Table: 15

Conversion factors for accumulation

Arrangement of cables		Level laying, spacing = Cable diameter d Distance from wall ≥ 2 cm			
Number of systems side by side		1	2	3	
Laying on the ground		0.92	0.89	0.88	
Laying on cable troughs (Impeded air circulation)	Number of grilles				
	1	0.92	0.89	0.88	
	2	0.87	0.84	0.83	
	3	0.84	0.82	0.81	
	6	0.82	0.80	0.79	
Laying on cable grilles (Unimpeded air circulation)	Number of grilles				
	1	1.00	0.97	0.96	
	2	0.97	0.94	0.93	
	3	0.96	0.93	0.92	
	6	0.94	0.91	0.90	
Arranged on frameworks or at wall		0.94	0.91	0.89	
Arrangement of cables		Bunched laying, spacing = 2d Distance from wall ≥ 2 cm			
Number of systems side by side		1	2	3	
Laying on the ground		0.95	0.90	0.88	
Laying on cable troughs (Impeded air circulation)	Number of grilles				
	1	0.95	0.90	0.88	
	2	0.90	0.85	0.83	
	3	0.88	0.83	0.81	
	6	0.86	0.81	0.79	
Laying on cable grilles (Unimpeded air circulation)	Number of grilles				
	1	1.00	0.98	0.96	
	2	1.00	0.95	0.93	
	3	1.00	0.94	0.92	
	6	1.00	0.93	0.90	
Arranged on frameworks or at wall		0.89	0.86	0.84	
Arrangements for which a reduction is not necessary					

Conversiyon factors for accumulation in air multiple core and single core D.C. cables Table: 16

Arrangement of cables		Level laying, spacing = Cable diameter d Distance from wall ≥ 2 cm					
Number of systems side by side		1	2	3	6	9	
Laying on the ground		0.92	0.89	0.88	0.85	0.84	
Laying on cable troughs (Impeded air circulation)	Number of grilles						
	1	0.95	0.90	0.88	0.85	0.84	
	2	0.92	0.85	0.83	0.81	0.80	
	3	0.88	0.83	0.81	0.79	0.78	
	6	0.86	0.81	0.79	0.77	0.76	
Laying on cable grilles (Unimpeded air circulation)	Number of grilles						
	1	1.00	0.98	0.96	0.93	0.92	
	2	1.00	0.95	0.93	0.90	0.89	
	3	1.00	0.94	0.92	0.89	0.88	
	6	1.00	0.93	0.90	0.87	0.86	
Arranged on frameworks or at wall		1.00	0.93	0.90	0.87	0.86	
Arrangements for which a reduction is not necessary							
Arrangement of cables		Mutual contact Wall contact					
Number of systems side by side		1	2	3	6	9	
Laying on the ground		0.90	0.84	0.80	0.75	0.73	
Laying on cable troughs (Impeded air circulation)	Number of grilles						
	1	0.95	0.84	0.80	0.75	0.73	
	2	0.95	0.80	0.76	0.71	0.69	
	3	0.95	0.78	0.74	0.70	0.68	
	6	0.95	0.76	0.72	0.68	0.66	
Laying on cable grilles (Unimpeded air circulation)	Number of grilles						
	1	0.95	0.84	0.80	0.75	0.73	
	2	0.95	0.80	0.76	0.71	0.69	
	3	0.95	0.78	0.74	0.70	0.68	
	6	0.95	0.76	0.72	0.68	0.66	
Arranged on frameworks or at wall		0.95	0.78	0.73	0.68	0.66	
Arrangements for which a reduction is not necessary							

2M KABLO produces in compliance with the security principles of Low Voltage Directives: 73 / 23 / EEC, 93 / 68 / EEC, 2006 / 95 / EC which is published by European Union Commission.

What is ROHS?

RoHS (Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment) restricts the usage of some hazardous substances in the electrical and electronic equipments.

With this directive, limiting the use of substances which are noxious for human health and environment is aimed. The following table shows the materials mentioned in the RoHS and the values in the table shows the maximum permitted concentration depending on the weight of homogen materials.

Cd (Cadmium)	% 0.01 (100 ppm)
Hg (Mercury)	% 0.1 (1000 ppm)
Cr ⁶⁺ (Hexavalent Chromium)	% 0.1 (1000 ppm)
PBBs (Polybrominated Biphenyls)	% 0.1 (1000 ppm)
PBDEs (Polybrominated Diphenyl Ethers includes Deca-BDE)	% 0.1 (1000 ppm)
Pb (Lead)	% 0.1 (1000 ppm)

Which products are included in the ROHS Directive?

- Home appliances
- Small home appliances
- Data and communication Equipment
- Consumer electronics
- Lighting equipment (light bulbs and lamps)
- Electrical and electronic equipments (excluding the fixed industrial big equipments)
- Toys and sports products
- Medical equipment (excluding the contagious sickness touching products)
- Automatic sales machines

What is CE?

The sign CE stands for 'Conformite European' and means the product conforms to the European norms which is about human/environment health and security, consumer rights. This sign shows that when the product is used appropriately, it does not pose a threat to human life, goods security and environment. CE is not a quality certificate. It does not represent the quality of the product but it represents the security of the product. Commercially, the sign has a function of a industrial product passport which provides a free movement in the European Union member states. The sign CE may be attached to the product if it complies with all of the directives of its type.

Mathematical Symbols

=	Equal	>	Smaller than or equal to	tan	Tangent
≠	Not equal to	<	Greater than or equal to	cot	Cotangent
~	Proportional to	≤	Smaller than	sin	Sine (Sinus)
≈	Appr. equal to	≥	Greater than	cos	Cosine
Σ	Sum. Total	∞	Infinite	∩	Intersection
Δ	Difference	π	Pi (3,14)	∪	Set Union

Electrical Units

Description	Symbol	Letter symbol	Unit
Angular frequency	ω	s ⁻¹	1 / second
Attenuation (equivalent)	a, α	dB (Np)	dezibel (neper)
Attenuation coefficient	α	dB / km (Np / km)	dezibel (neper) / km
Capacitance per unit length	C'	F / km	farad / km
Capacitance unbalance	k / k ₁ / k _{2,3} / k _{9,12} / e _{1,2}	pF	pikofarad
Conductivity	κ	Sm / mm ²	siemensmeter / mm ²
Conductance	G	mS / km	millisiemens / km
Conductance per unit length	G'	S / km	siemens / km
Conductor cross section	q	mm ²	millimeter ²
Conductor resistance	R	Ω	ohm
Current, strength of current	I	A	ampere
Frequency	f	Hz	hertz
Group delay	τ_g	s / km	second / km
Inductivity	L	mH / km	millihenry / km
Inductivity load per unit length	L'	H / km	henry / km
Insulation resistance	R _{is}	M.Ω x km	megaohmkilometer
Impedance (amount)	Z	Ω	ohm
Line length	ℓ	km	kilometer
Level	p	dB (Np)	dezibel (neper)
Magnetic unbalance	m	nH	nanohenry
Mutual capacitance	C	nF / km	nanofarad / km
Mutual inductance	M	mH / km	millihenry / km
Near end cross talk attenuation (equivalent)	a _n , α_n	dB (Np)	dezibel (neper)
Phase delay	τ_g	s / km	second / km
Power	P	W	watt
Reduction factor	r _k	-	-
Reflection coefficient	r	-	-
Resistance load per unit length	R'	Ω / km	ohm / km
Specific resistance	s	Ω mm ² / m	ohm. mm ² / m
Temperature	t	°C	degree celsius
Velocity of propagation	v _ü	bit / s	bit / second
Voltage	U	V	volt
Wave length	λ	m	meter

Table: 19

Unit Conversion Table

Length	m	cm	inc	ft	yd	mile
1 meter	1	100	39,37007874	3,2808399	1,0936133	$6,213 \times 10^{-4}$
1 centimeter	0,01	1	0,39370	0,03280	0,01093	$6,213 \times 10^{-6}$
1 Inch	0,0254	2,54	1	0,083333	0,02777	$1,578 \times 10^{-5}$
1 foot	0,3048	30,48	12	1	0,333333	$1,893 \times 10^{-4}$
1 yard	0,9144	91,44	36	3	1	$5,681 \times 10^{-4}$
1 mile	1609,344	160934,4	63360	5280	1760	1
Area	m²	cm²	inc²	ha	ft²	mile²
1 Square meter	1	10000	1550,00310	0,0001	10,7639	$3,861 \times 10^{-7}$
1 Square centimeter	0,0001	1	0,15500031	1×10^{-8}	$1,076 \times 10^{-3}$	$3,861 \times 10^{-11}$
1 Square inch	$6,451 \times 10^{-4}$	6,451	1	$6,451 \times 10^{-8}$	$6,944 \times 10^{-3}$	$2,4909 \times 10^{-10}$
1 hectare	10000	1×10^8	15500031	1	107639,104	$3,861 \times 10^{-3}$
1 Square feet	0,09290304	929,0304	143,999	$9,29 \times 10^{-6}$	1	$3,587 \times 10^{-8}$
1 Square mile	2589988,110336	25899881103,36	4014489600	258,998	27878400	1
Volume	m³	cm³	dm³	in³	ft³	Gal
1 Cubic meter	1	1×10^6	1000	61023,744	35,3146	264,172
1 Cubic centimeter	1×10^{-6}	1	0,001	0,06102374	$3,531 \times 10^{-5}$	$2,641 \times 10^{-4}$
1 Cubic decimeter	0,001	1000	1	61,0237589	0,035314662	0,264
1 Cubic inches	$1,639 \times 10^{-5}$	16,387064	0,016387	1	$5,787 \times 10^{-4}$	$4,329 \times 10^{-3}$
1 Cubic feet	0,02831685	28316,846592	28,31685	1728	1	7,48051947
1 gallon	0,003785411784	3785,411	3,785	230,998	0,133	1
Weight	kg	gr	ton	oz	lb	
1 kilogram	1	1000	0,001	35,2739619	2,20462262	
1 gram	0,001	1	0,000001	0,035273	0,002204	
1 metric ton	1000	1×10^6	1	35273,961	2204,622	
1 ounce	0,028349523125	28,349523125	$2,835 \times 10^{-5}$	1	0,0625	
1 pound	0,45359237	453,59237	$4,535 \times 10^{-4}$	16	1	
Pressure	atm	at	psi	torr	bar	
1 atmosphere (standard)	1	1,0332316	14,69594877	760,0021	1,01325	
1 atmosphere (metric)	0,9678372	1	14,2233	735,556819	0,9806614	
1 psi (pounds / square inch)	0,068045963909	0,07030695	1	51,7149	0,06894757	
1 torr	$1,3158 \times 10^{-3}$	$1,3595 \times 10^{-3}$	0,193368	1	$1,33 \times 10^{-3}$	
1 bar	0,986923266	1,01972	14,50377	750,0637	1	
Power	kW	hp	kgm / sn	k.cal / sn	BTU / sn	
1 kilowatt	1	1,340483	102	0,239	0,947817	
1 horsepower (electric)	0,746	1	76,1	1,178	0,707	
1 kgm / sn	$9,81 \times 10^{-3}$	$1,31 \times 10^{-2}$	1	$2,34 \times 10^{-3}$	$9,39 \times 10^{-3}$	
1 k.cal / sn	4,19	5,61	427	1	3,97	
1 BTU / sn	1,055056	1,414284	108	0,252	1	



2MKAB INSTRUMENTATION CABLES

RE-Y(St)Y	RE-Y(St)YSWAY(ö) - PIMF/TiMF
RE-2Y(St)Y	RE-2Y(St)YSWAY(ö) - PIMF/TiMF
RE-2X(St)Y	RE-2X(St)YSWAY(ö) - PIMF/TiMF
RE-Y(St)Y - PIMF/TiMF	RE-Y(St)YSWBY(ö)
RE-2Y(St)Y - PIMF/TiMF	RE-2Y(St)YSWBY(ö)
RE-2X(St)Y - PIMF/TiMF	RE-2X(St)YSWBY(ö)
RE-Y(St)YSWAY	RE-Y(St)YSWBY(ö) - PIMF/TiMF
RE-2Y(St)YSWAY	RE-2Y(St)YSWBY(ö) - PIMF/TiMF
RE-2X(St)YSWAY	RE-2X(St)YSWBY(ö) - PIMF/TiMF
RE-Y(St)YSWAY - PIMF/TiMF	RE-2Y(St)H
RE-2Y(St)YSWAY - PIMF/TiMF	RE-2X(St)H
RE-2X(St)YSWAY - PIMF/TiMF	RE-2Y(St)H - PIMF/TiMF
RE-Y(St)YSWBY	RE-2X(St)H - PIMF/TiMF
RE-2Y(St)YSWBY	RE-2Y(St)HSAH
RE-2X(St)YSWBY	RE-2X(St)HSAH
RE-Y(St)YSWBY - PIMF/TiMF	RE-2Y(St)HSAH - PIMF/TiMF
RE-2Y(St)YSWBY - PIMF/TiMF	RE-2X(St)HSAH - PIMF/TiMF
RE-2X(St)YSWBY - PIMF/TiMF	RE-2Y(St)HSWBH
RE-Y(St)Y(ö)	RE-2X(St)HSWBH
RE-2Y(St)Y(ö)	RE-2Y(St)HSWBH - PIMF/TiMF
RE-2X(St)Y(ö)	RE-2X(St)HSWBH - PIMF/TiMF
RE-Y(St)Y(ö) - PIMF/TiMF	RD-Y(St)Y...Bd
RE-2Y(St)Y(ö) - PIMF/TiMF	RD-H(St)H...Bd
RE-2X(St)Y(ö) - PIMF/TiMF	RE-Y(St)Yv
RE-Y(St)YSWAY(ö)	RE-2Y(St)Yv
RE-2Y(St)YSWAY(ö)	RE-2X(St)Yv
RE-2X(St)YSWAY(ö)	



FireKab FIRE RESISTANT INSTRUMENTATION CABLES

RE-2G(St)H...CI	RE-2X(St)H - PIMF/TiMF...CI
RE-2G(St)H - PIMF/TiMF...CI	RE-3G(St)H(ö)...CI
RE-2X(St)H...CI	RE-3G(St)H(ö) - PIMF/TiMF...CI



2MKAB BUS CABLES

PROFIBUS L2	PROFIBUS PA
PROFIBUS L2 OUTDOOR	PROFIBUS PA-PIMF / SWB
PROFIBUS L2 FLEX	INSTABUS EIB-PVC
PROFIBUS CAN	INSTABUS EIB-LSZH



2MKAB COAXIAL CABLES

RG 59 F Mini - HD	RG 11 / 4 FS
RG 59 / 4 F - HD	RG 11 / 6 F White
RG 6 / 4 F - HD	RG 11 / 6 F Black (2 Green Traced)
RG 59 FA Mini	RG 11 / 6 FS
TWIN RG 59 FA Mini	RG 11 / 6 FP
RG 59 / 4 FA	RG 11 / 6 FHF
TWIN RG 59 / 4 FA	RG 11 A / U
RG 59 / 4 F	RG 12 A / U
RG 59 / 6 F	TCE2H2HH2 0.4/1.9 LSZH
RG 59 / 4 FHF	TCE2H2HH2M 4(0.4/1.9) LSZH
RG 59 / 6 FHF	TCE2H2HH2M 8(0.4/1.9) LSZH
RG 6 / 4 FA SAT-1	TCE2HH2 0.4/1.9 LSZH
4 x RG 6 / 4 FA SAT-1	TCE2HH2M 4(0.4/1.9) LSZH
RG 6 / 4 FA Cu Trishield	TCE2HH2M 8(0.4/1.9) LSZH
RG 6 / 4 FA CCS Trishield	RG 174 / U
RG 6 / 4 F White	DUAL RG 174 / U
RG 6 / 4 F Black (2 Orange Traced)	RG 213 / U
RG 6 / 4 F Black (2 Green Traced)	RG 214 / U
TWIN RG 6 / 4 F	RG 223 / U
RG 6 / 4 FP	RG 58 / U
RG 6 / 4 FHF	RG 58 A / U
RG 6 / 6 F White	RG 58 C / U
RG 6 / 6 F Black (2 Green Traced)	RG 8 / U
RG 6 / 6 FP	RG 8 A / U
RG 6 / 6 FHF	RG 8 / X
RG 11 / 4 F White	RG 59 B / U
RG 11 / 4 F Black (2 Orange Traced)	RG 62 A / U Indoor
RG 11 / 4 FA	RG 62 A / U Outdoor
RG 11 / 4 FP	RG 62 A/U SWA
RG 11 / 4 FHF	



2MKAB CONTROL CABLES

LIYY	LIH(St)H	LIY11Y
LIHH	LIY(St)Y-TP	LIYC11Y
LIYY-TP	LIH(St)H-TP	YSLY-JZ
LIHH-TP	LIY(St)CY	HSLH-JZ
LIYCY	LIH(St)CH	YSLICY-JZ
LIHCH	LIY(St)CY-TP	HSLHCH-JZ
LIYCY-TP	LIH(St)CH-TP	2M PUR-JZ (YSL11Y-JZ)
LIHCH-TP	LIYCY-CY	2M PUR C-JZ (YSL11Y-CY)
LIY(St)Y	LI2YCY-PIMF	



FireKab FIRE RESISTANT CABLES

LIHH FE180 PH90	BMK-SH FE180 PH120
LIHH-TP FE180 PH90	JE-H(St)H...Bd FE180 E30-E90 PH120
LIH(St)H FE180 PH90	JE-H(St)HSWBH...Bd FE180 PH120
LIH(St)H-TP FE180 PH90	NGF FE180 PH30 (CU/SI/OSCR/LSZH)
LIH(St)CH FE180 PH90	SIHF FE180 PH90
LIH(St)CH-TP FE180 PH90	NS07 FE180 PH90 (CU/SI/LSZH)
LIHCH FE180 PH90	DATA FE180 PH90
LIHCH-TP FE180 PH90	COAX FE180 PH90
JE-H(St)H...Bd FE180 PH120	LC 500 FE180
	SC 180 FE180



MARINE & SHIPBOARD CABLES

FM2XAAH	M2X
FM2XACY	M2XCY
FM2XCY	M2XCH-M2XCH (EMC)
FM2XCH	M2XSY
FM2XACH	M2XY
FM2XAH	M2XH
FMGACH	MGH
FMGCH	MGCH-MGCH (EMC)



FireKab FIRE RESISTANT MARINE & SHIPBOARD CABLES

M2XH FE180
MGCH FE180
MGH FE180
M2XCH FE180
FM2XCH FE180
FMGCH FE180



LOOKAB AUDIO / VIDEO CABLES

Unbalanced Audio Cables
 Balanced Microphone Cables
 Halogen Free Balanced Microphone Cables
 Twincable
 Balanced Installation Cables
 Halogen Free Balanced Installation Cables
 Star-Quad Microphone Cables
 Digital AES / EBU Cables
 Halogen Free Digital AES/EBU Cables
 Analog Multicore Cables
 Halogen Free Analog Multicore Cables
 Digital Multicore AES/EBU Cables
 Loudspeaker Twinax Cables
 Loudspeaker Cables
 Loudspeaker Coax Cables
 Halogen Free Loudspeaker Twinax Cables
 Fire Resistant Loudspeaker Twinax Cables
 Lighting Multicore Cables
 Hybrid (Line) Cables
 Hybrid (DMX) Cables
 Digital Video Cables
 Halogen Free Digital Video Cables
 Analog Video Cables
 Multi Video Cables
 RGB Video Data Cables
 Triax Video Cables
 Triflex Video Cables
 Composite Cables
 Alternative Composite Cables



2MKAB SOME OF OTHER PRODUCTS

CAT 5e Cables / CAT 5e Armoured Cables
 RS 232-422-485 Cables, Load Cell Cables,
 CCTV Cables, 2MCOM Nurse Call Cable (HFFR, PVC)
 Indoor Telephone and Fire Alarm Cables
 J-Y(St)Y...Lg/ J-H(St)H...Lg