

# LOW VOLTAGE RANGE OF CABLES





# SUMMARY

## NON ARMoured CABLES

### FIRE RESISTANT

- 06 Genfire 07Z-R Mica
- 08 Genfire Alarm S02Z1-K
- 10 Genfire Alarm S02Z1
- 12 Genfire SZ1-K / RZ1-K Mica

### LOW FIRE HAZARD

- 18 Exzhellent D H07Z-R
- 20 Exzhellent D H07Z-K
- 22 Exzhellent XXI H07Z1-U / H07Z1-R
- 24 Exzhellent XXI H07Z1-K
- 26 Exzhellent XXI Alarm R02Z1-K
- 28 Exzhellent XXI RZ1-K
- 32 Exzhellent XXI RZ1-K Multiconductor

### PVC

- 34 Twin and Earth W-U / W-R
- 36 Genlis-R H05V-U / H07V-U / H07V-R
- 38 Genlis-F H05V-K / H07V-K

- 40 Tri-rated V 105 °C
- 42 Biggflex H05VV-F
- 44 Tenaflex 750 H07RN-F
- 48 Energy RV
- 52 Energy RV-K

### PREWIRED SOLUTIONS

- 56 Cablepack

## ARMoured CABLES

### FIRE RESISTANT

- 58 Genfire RZ1MZ1 Mica
- 62 Genfire RZ1F3Z1-K Mica

### LOW FIRE HAZARD

- 68 Exzhellent XXI RZ1MZ1
- 72 Exzhellent XXI RZ1F3Z1-K

### PVC

- 76 Armigron RMV



# NON ARMoured CABLES

# GENFIRE (SEGURFOC)

07Z-R Mica

Fire resistant

## APPLICATIONS:

Essential safety circuits where the cables are protected by metal conduit or trunking.

Used for emergency lighting, fire alarm systems not requiring a twisted cable or other essential services.

Maximum rating temperature: 90 °C

Minimum working temperature: -25 °C

## CONSTRUCTION:

Based on BS 7211

### 1. CONDUCTOR

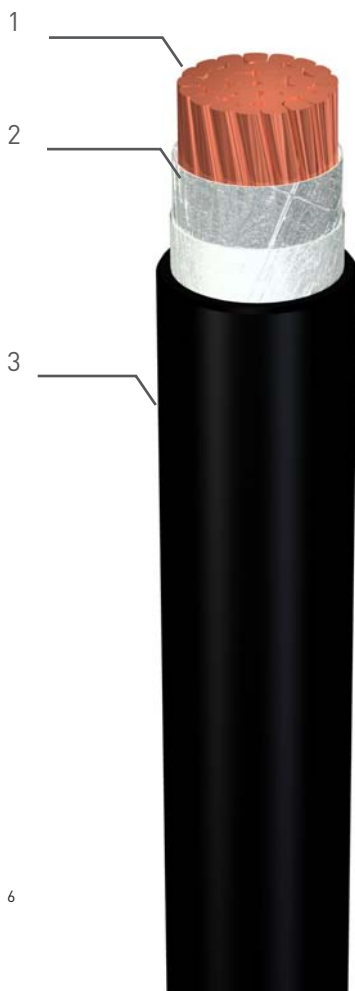
Class 2 (-R) stranded copper conductor to BS-EN 60228.

### 2. INSULATION

Mineral ceramic fire resistant tape (Mica).

### 3. SHEATH

Halogen-free crosslinked compound (Z), type EI5 to BS-EN 50363-5.



## APPROVALS:



BS 6387 Cert. N° 722a

## RATED VOLTAGE:

0.6/1 kV

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
1811106	1x1,5	3,5	30	25	23	24,83	0,380
1811107	1x2,5	4,1	40	25	31	15,25	0,363
1811108	1x4	4,6	55	30	42	9,533	0,340
1811109	1x6	5,2	75	35	54	6,404	0,318
1811110	1x10	6,4	120	40	75	3,851	0,310
1811111	1x16	7,3	180	45	100	2,457	0,293
1811112	1x25	8,8	275	55	110	1,379	0,288
1811113	1x35	9,9	365	60	137	1,016	0,277
1811114	1x50	11,4	500	70	167	0,774	0,277
1811115	1x70	13,0	695	80	213	0,559	0,261
1811116	1x95	15,2	955	95	258	0,424	0,254
1811117	1x120	16,6	1.190	100	299	0,351	0,247
1811118	1x150	18,3	1.455	110	344	0,300	0,246
1811119	1x185	20,4	1.820	125	392	0,255	0,244
1811120	1x240	23,5	2.395	145	461	0,213	0,246

Maximum current ratings according to IEC 60364-5-52 table B.52-1 method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.

**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
BS 6387  
CATEGORY CWZ  
EN 50200 PH 120



FIRE RETARDANT  
IEC 60332-3



FLAME  
RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE EMISSION  
IEC 61034-2

# GENFIRE ALARM

S02Z1-K

Fire resistant

## APPLICATIONS:

Essential safety circuits associated with fire fighting equipment, emergency lighting and particularly for power supplies to build equipment used in alarm and detection systems. With special fire performance such as fire retardancy, halogen-free and low emission of smoke and fumes.

Minimum working temperature: -40 °C

## CONSTRUCTION:

IEC60502-1 & UNE 211025

### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductor to IEC 60228.  
Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections.

### 2. INSULATION:

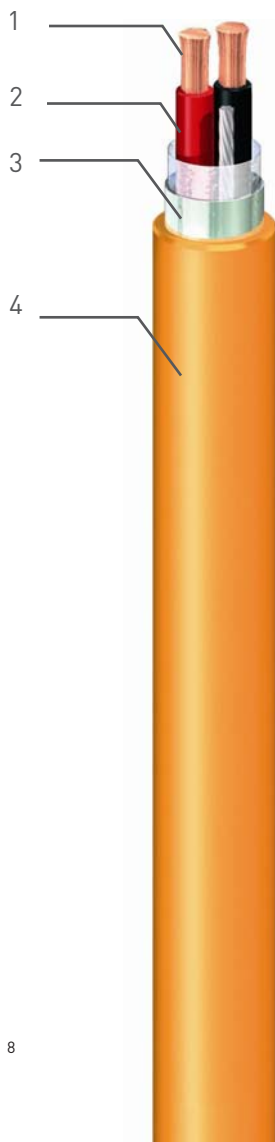
Fireproof crosslinked compound, (S) type EI2 to EN 50363-1.  
Identification by colour.

### 3. SCREEN:

Aluminium polyester collective screen (O2).

### 4. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.



## RATED VOLTAGE:

300/500 V



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under screen (mm)	Overall diameter (mm)	Weight (kg/km)	Maximum bending radius (mm)	Mutual capacitance (µF/km)	Inductance (mH/km)
<b>1607206</b>	1x2x1,5	5,9	8,6	105	85	0,117	0,6403
<b>1607207</b>	1x2x2,5	7,1	9,9	135	105	0,128	0,6191

Codes in bold italic format are available from stock.

Codes for drum packaging. For coil packaging codes start 1608.

**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
EN 50200 PH 120



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



LOW TEMP.  
-40°C

# GENFIRE ALARM

S02Z1

Fire resistant

## APPLICATIONS:

Fire detection and fire alarm systems for buildings.  
Voice alarm systems.  
Emergency lighting.  
Other essential service circuits.

Minimum working temperature: -25 °C

## CONSTRUCTION:

BS 7629-1



### 1. CONDUCTOR:

Class 1 solid up to 2.5 mm<sup>2</sup> or Class 2 stranded for 4 mm<sup>2</sup> copper conductors to BS-EN 60228.

### 2. INSULATION:

Fireproof crosslinked compound (S), type EI2 to BS-EN 50363-1.

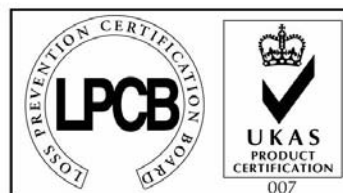
### 3. SCREEN:

Laminated aluminium tape plus tinned annealed copper circuit protective conductor (O2).

### 4. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type LTS3 to BS 7655-6.1.

## APPROVALS:



BS 7629-1 Cert. N° 722b

## RATED VOLTAGE:

300/500 V

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Inductance (mH/Km)
1609205	1x2x1	6,8	70	45	0,6643
1609206	1x2x1,5	7,7	90	50	0,6582
1609207	1x2x2,5	9,1	130	55	0,6353
1609208	1x2x4	10,4	190	65	0,5879
1609305	1x3x1	7,2	85	45	0,6679
1609306	1x3x1,5	8,1	115	50	0,6582
1609307	1x3x2,5	9,6	165	60	0,6353
1609308	1x3x4	11,0	240	70	0,5879
1609405	1x4x1	8,0	110	50	0,6643
1609406	1x4x1,5	9,1	140	55	0,6582
1609407	1x4x2,5	10,7	210	65	0,6353
1609408	1x4x4	12,2	300	75	0,5879

Codes for drum packaging. For coil packaging codes start 1610.

**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
BS 6387  
CATEGORY CWZ  
EN 50200 PH 30



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2

# GENFIRE

## SZ1-K / RZ1-K Mica

### Fire resistant

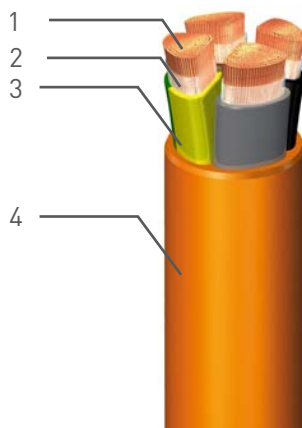
#### APPLICATIONS:

Essential safety circuits associated with fire fighting equipment, emergency lighting and particularly for power supplies to build equipment used in safety systems. With special fire performance such as fire retardancy, halogen free and low emission of smoke and fumes.

Maximum rating temperature: 90 °C  
 Minimum working temperature: -40 °C

#### CONSTRUCTION:

IEC 60502-1



##### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductor to IEC 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections (Sectorflex<sup>®</sup> solution).

##### 2. PRIMARY INSULATION:

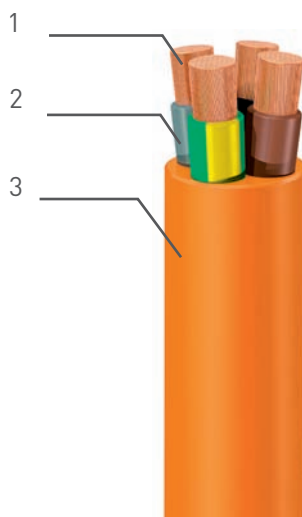
Mineral ceramic fire resistant tape (Mica).

##### 3. SECONDARY INSULATION:

Cross-linked polyethylene (R ) type XLPE to IEC 60502-1. Identification by colour.

##### 4. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.



##### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductor to IEC 60228.

##### 2. SECONDARY INSULATION:

Fireproof crosslinked compound (S), type EI2 to EN 50363-1. Identification by colour.

##### 3. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.

#### RATED VOLTAGE:

0,6/1 kV

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

**SZ1-K**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Maximum current rating Buried 20°C** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1621106</b>	1x1,5	5,9	55	25	21	27	27,31	0,467
<b>1621107</b>	1x2,5	6,5	70	30	29	36	14,24	0,436
<b>1621108</b>	1x4	7,3	90	30	38	46	8,873	0,408
<b>1621109</b>	1x6	7,8	115	35	49	58	5,950	0,381
<b>1621110</b>	1x10	8,8	160	35	68	77	3,484	0,349
<b>1621111</b>	1x16	9,8	220	40	91	100	2,240	0,326
<b>1621112</b>	1x25	11,0	305	45	116	128	1,476	0,305
<b>1621113</b>	1x35	12,2	410	50	144	154	1,073	0,293
<b>1621206</b>	2x1,5	9,8	120	40	24	27	27,26	0,345
<b>1621207</b>	2x2,5	11,0	155	45	33	36	16,40	0,330
<b>1621208</b>	2x4	12,5	200	50	45	46	10,21	0,316
<b>1621209</b>	2x6	13,6	305	55	57	58	6,835	0,298
1621210	2x10	15,5	425	65	79	77	3,993	0,277
1621211	2x16	17,5	580	70	105	100	2,561	0,263
1621212	2x25	20,0	805	80	123	128	1,684	0,251
1621213	2x35	22,4	1.065	90	154	154	1,221	0,246

Codes in bold italic format are available from stock.

**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
EN 50200 PH 120



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX  
(only RZ1-K Mica (AS+) cable)



LOW TEMP.  
-40°C

**PHYSICAL AND ELECTRICAL  
CHARACTERISTICS:**
**SZ1-K**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C*	Maximum current rating Buried 20°C**	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1621306</b>	3G1,5	10,3	145	45	20	23	27,26	0,345
<b>1621307</b>	3G2,5	11,6	190	50	26	30	16,40	0,330
<b>1621308</b>	3G4	13,2	260	55	36	38	10,21	0,316
<b>1621309</b>	3G6	14,4	370	60	46	48	6,835	0,298
<b>1621310</b>	3G10	16,5	525	70	65	64	3,993	0,277
1621311	3G16	18,6	730	75	87	82	2,561	0,263
1621312	3x25	21,3	1.030	85	110	106	1,458	0,251
1621313	3x35	23,9	1.370	100	137	129	1,057	0,246
<b>1621406</b>	4G1,5	11,1	175	45	20	23	23,61	0,345
<b>1621407</b>	4G2,5	12,6	235	50	26	30	14,20	0,330
<b>1621408</b>	4G4	14,4	320	60	36	38	8,839	0,316
<b>1621409</b>	4G6	15,7	445	65	46	48	5,919	0,298
<b>1621410</b>	4G10	18,0	650	75	65	64	3,458	0,277
<b>1621411</b>	4G16	20,4	915	85	87	82	2,218	0,263
<b>1621412</b>	4x25	23,4	1.295	95	110	106	1,458	0,251
<b>1621413</b>	4x35	26,4	1.735	135	137	129	1,057	0,246
<b>1621506</b>	5G1,5	12,0	210	50	20	23	23,61	0,345
<b>1621507</b>	5G2,5	13,7	285	55	26	30	14,20	0,330
<b>1621508</b>	5G4	15,7	385	65	36	38	8,839	0,316
<b>1621509</b>	5G6	17,2	550	70	46	48	5,919	0,298
<b>1621510</b>	5G10	19,8	785	80	65	64	3,458	0,277
<b>1621511</b>	5G16	22,5	1.125	90	87	82	2,218	0,263
<b>1621512</b>	5G25	25,9	1.600	130	110	106	1,458	0,251
<b>1621513</b>	5G35	29,2	2.150	150	137	129	1,057	0,246

Codes in bold italic format are available from stock.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\* Current ratings according to IEC 60364-5-52 table B.52-2

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

**RZ1-K Mica**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20°C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1623114</b>	1x50	14,2	545	85	175	183	0,773	0,289
<b>1623115</b>	1x70	16,3	745	100	224	224	0,568	0,277
<b>1623116</b>	1x95	17,9	950	110	271	265	0,449	0,268
<b>1623118</b>	1x150	22,0	1.475	135	363	342	0,311	0,261
<b>1623119</b>	1x185	24,1	1.790	145	415	383	0,270	0,261
<b>1623120</b>	1x240	27,4	2.350	165	490	442	0,223	0,255
1623121	1x300	30,8	2.940	185	563	500	0,193	0,248
1623122	1x400	35,3	3.975	215	674	570	0,164	0,243
1623123	1x500	39,6	5.060	240	774	660	0,146	0,241
1623124	1x630	44,2	6.630	265	890	735	0,128	0,239
1623214*	2x50	22,6	1.220	140	188	183	0,876	0,251
1623215*	2x70	26,2	1.675	160	244	224	0,642	0,246
1623216*	2x95	28,9	2.160	175	296	265	0,506	0,240
1623217*	2x120	32,5	2.735	195	348	302	0,413	0,237
1623218*	2x150	35,9	3.375	215	404	342	0,349	0,237
1623219*	2x185	39,2	4.080	235	464	383	0,303	0,238
1623220*	2x240	44,8	5.365	270	552	442	0,248	0,234
1623314*	3x50	26,6	1.635	160	167	152	0,759	0,252
1623315*	3x70	30,9	2.255	190	214	187	0,556	0,246
1623316*	3x95	34,2	2.915	205	259	222	0,438	0,240
1623317*	3x120	38,4	3.685	230	301	253	0,358	0,237
1623318*	3x150	42,3	4.555	255	353	286	0,302	0,237
1623319*	3x185	46,3	5.510	280	391	320	0,262	0,238
1623320*	3x240	52,8	7.250	320	468	370	0,215	0,234
1623321*	3x300	59,6	9.105	360	538	418	0,186	0,230

Codes in bold italic format are available from stock.

\* Shaped flexible conductors SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:****RZ1-K Mica**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20°C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1623414*</b>	4x50	29,2	2.170	175	167	152	0,759	0,252
1623415*	4x70	34,2	3.020	205	214	187	0,556	0,246
1623416*	4x95	37,7	3.905	230	259	222	0,438	0,240
1623417*	4x120	42,6	4.965	260	301	253	0,358	0,237
1623418*	4x150	46,8	6.105	285	353	286	0,302	0,237
1623419*	4x185	51,3	7.420	310	391	320	0,262	0,238
1623420*	4x240	58,5	9.760	355	468	370	0,215	0,234
1623421*	4x300	66,1	12.275	400	538	418	0,186	0,230
<b>1623514</b>	5G50	34,9	2.930	210	167	152	0,759	0,249
1623515	5G70	41,0	4.090	250	214	187	0,556	0,243
1623516	5G95	45,4	5.280	275	259	222	0,438	0,238
1623517	5G120	51,4	6.725	310	301	253	0,358	0,235
1623518	5G150	56,7	8.305	340	353	286	0,302	0,236

Codes in bold italic format are available from stock.

Codes for drum packaging. For coil packaging codes start 1622.

\* Shaped flexible conductors SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2





# EXZHELLENT D

## H07Z-R

### Low fire hazard

**exZhellent**

H07Z-R

#### APPLICATIONS:

Installation in surface mounted or embedded conduits or similar closed systems, In particular for installation where low emissions of smoke and acid gas is required in case of fire.  
Suitable for use in or on lighting, control gear and switchboards.

Maximum rating temperature: +90 °C  
Minimum working temperature: -15°C

#### CONSTRUCTION:

HD 22.9 & BS 7211

##### 1. CONDUCTOR:

Class 2 (-R) stranded plain or tinned copper conductors to EN 60228.

##### 2. INSULATION:

Halogen-free crosslinked compound (Z), type EI 5 to EN 50363-5.



#### APPROVALS:

AENOR ◀ HAR ▶



#### RATED VOLTAGE:

450/750 V

#### PERFORMANCE STANDARDS:



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

Plain copper

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
1812106	1x1,5	2,9	25	20	23	21,67	0,338
1812107	1x2,5	3,4	35	25	31	13,46	0,328
1812108	1x4	3,9	50	25	42	8,405	0,308
1812109	1x6	4,5	65	30	54	5,590	0,291
1812110	1x10	5,8	110	35	75	3,345	0,288
1812111	1x16	6,7	165	40	100	2,139	0,274
1812112	1x25	8,2	260	50	110	1,386	0,273
1812113	1x35	9,2	350	55	137	1,021	0,263
1812114	1x50	10,8	480	65	167	0,775	0,259
1812115	1x70	12,2	665	75	213	0,557	0,246
1812116	1x95	14,3	925	90	258	0,425	0,245
1812117	1x120	16,0	1.155	100	299	0,348	0,239
1812118	1x150	17,7	1.400	110	344	0,296	0,237
1812119	1x185	19,7	1.760	120	392	0,252	0,237
1812120	1x240	22,3	2.330	135	461	0,210	0,235

Tinned copper

1815106	1x1,5	2,9	25	20	23	25,02	0,338
1815107	1x2,5	3,4	35	25	31	15,55	0,328
1815108	1x4	3,9	50	25	42	9,705	0,308
1815109	1x6	4,7	70	30	54	6,458	0,301
1815110	1x10	6,0	115	40	75	3,866	0,296
1815111	1x16	6,9	170	45	100	2,472	0,281
1815112	1x25	8,4	265	50	110	1,388	0,278
1815113	1x35	9,4	360	60	137	1,022	0,268
1815114	1x50	11,0	490	70	167	0,777	0,264
1815115	1x70	12,4	680	75	213	0,559	0,250
1815116	1x95	14,5	935	90	258	0,426	0,248
1815117	1x120	16,2	1.170	100	299	0,351	0,242
1815118	1x150	17,9	1.420	110	344	0,301	0,240
1815119	1x185	19,9	1.780	120	392	0,255	0,239
1815120	1x240	22,4	2.330	135	461	0,211	0,234

Cables in boxes up to 6 mm<sup>2</sup> inclusive and in coils from 10 mm<sup>2</sup> onwards.

\* Current ratings according to IEC 60364-5-52 tabla B52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.

# EXZHELLENT D

## H07Z-K

### Low fire hazard

**exZellent**

H07Z-K

#### APPLICATIONS:

Installation in surface mounted or embedded conduits or similar closed systems, In particular for installation where low emissions of smoke and acid gas is required in case of fire.  
Suitable for use in or on lighting, control gear and switchboards.

Maximum rating temperature: +90 °C  
Minimum working temperature: -15 °C

#### CONSTRUCTION:

HD 22.9 & BS 7211

##### 1. CONDUCTOR:

Class 5 (-K) flexible plain or tinned copper conductor to EN 60228.

##### 2. INSULATION:

Halogen-free cross-linked compound (Z), type EI 5 to EN 50363-5.



#### APPROVALS:

AENOR ◀ HAR ▶



#### RATED VOLTAGE:

450/750 V

#### PERFORMANCE STANDARDS:



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

Plain copper

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C*	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
1813106	1x1,5	2,9	25	20	23	27,26	0,325
1813107	1x2,5	3,5	35	25	31	16,40	0,312
1813108	1x4	4,1	50	25	42	10,21	0,291
1813109	1x6	4,8	70	30	54	6,840	0,286
1813110	1x10	6,2	115	40	75	4,002	0,280
1813111	1x16	7,2	165	45	100	2,568	0,265
1813112	1x25	8,8	255	55	110	1,463	0,261
1813113	1x35	9,9	345	60	137	1,061	0,252
1813114	1x50	11,7	490	70	167	0,764	0,250
1813115	1x70	13,6	675	55	213	0,559	0,240
1813116	1x95	15,6	890	65	258	0,442	0,240
1813117	1x120	17,4	1.125	70	299	0,361	0,234
1813118	1x150	19,2	1.395	80	344	0,304	0,235
1813119	1x185	21,1	1.700	85	392	0,264	0,235
1813120	1x240	24,4	2.255	100	461	0,217	0,232

Tinned copper

1816106	1x1,5	2,9	25	20	23	28,07	0,325
1816107	1x2,5	3,6	35	25	31	16,87	0,309
1816108	1x4	4,0	50	25	42	10,50	0,293
1816109	1x6	4,9	70	30	54	7,023	0,283
1816110	1x10	6,2	115	40	75	4,083	0,279
1816111	1x16	7,1	170	45	100	2,629	0,265
1816112	1x25	8,8	265	55	110	1,490	0,261
1816113	1x35	10,1	360	65	137	1,080	0,250
1816114	1x50	12,0	505	75	167	0,775	0,248
1816115	1x70	13,5	695	85	213	0,568	0,241
1816116	1x95	15,4	910	95	258	0,450	0,240
1816117	1x120	17,4	1.150	105	299	0,366	0,234
1816118	1x150	19,3	1.440	120	344	0,310	0,234
1816119	1x185	21,2	1.745	130	392	0,267	0,235
1816120	1x240	24,8	2.315	150	461	0,220	0,231

Cables in boxes up to 6 mm<sup>2</sup> inclusive and in coils from 10 mm<sup>2</sup> onwards.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.



# EXZHELLENT XXI

H07Z1-U / H07Z1-R

Type 2

Low fire hazard

**exZhelent XXI**

H07Z1-U / H07Z1-R

Type 2

## APPLICATIONS AND MAIN CHARACTERISTICS:

Suitable for use in conduit and for fixed, protected installation. In particular for installation where fire, smoke emission and toxic fumes create a potential threat.

Maximum rating temperature: +70 °C

Minimum working temperature: -40 °C

## CONSTRUCTION:

HD 21.15

### 1. CONDUCTOR:

Class 1 (-U) solid or class 2 (-R) stranded copper conductor to EN 60228.

### 2. INSULATION:

Halogen-free thermoplastic polyolefin (Z1), type TI7 to EN 50363-7.



## APPROVALS:



AENOR <HAR >

## RATED VOLTAGE:

450/750 V

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

**H07Z1-R**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b><i>7289106</i></b>	1x1,5	2,9	25	20	17	25,58	0,325
<b><i>7289107</i></b>	1x2,5	3,4	35	25	23	15,39	0,312
7289108	1x4	3,9	50	25	31	9,586	0,291
7289109	1x6	4,5	65	30	40	6,421	0,276
<b><i>7289110</i></b>	1x10	5,8	110	35	54	3,759	0,272
<b><i>7289111</i></b>	1x16	6,7	165	40	73	2,413	0,258

Codes in bold italic format are available from stock.

Cables in boxes up to 6 mm<sup>2</sup> inclusive and in coils for 10 & 16 mm<sup>2</sup>.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors.

**H07Z1-U**

1654106	1x1,5	2,8	20	20	17	23,09	0,365
1654107	1x2,5	3,3	35	20	23	23,09	0,354
1654108	1x4	3,8	50	25	31	28,87	0,333

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors.

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2

# EXZHELLENT XXI

H07Z1-K

Type 2

Low fire hazard



H07Z1-K

Type 2

## APPLICATIONS:

Industrial wiring where smoke and toxic emission would pose a major hazard in the event of fire. These cables are intended for drawing into trucking and conduit. They may also be used in protected installations such as lighting fittings, appliances, switchgear and controlgear.

Maximum rating temperature: +70 °C

Minimum working temperature: -40 °C

## CONSTRUCTION:

HD 21.15

### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductor to EN 60228.

### 2. INSULATION:

Halogen-free thermoplastic polyolefin (Z1), type TI7 to EN 50363-7.



## APPROVALS:

## RATED VOLTAGE:

450/750 V



AENOR <HAR >



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b>1656106</b>	1x1,5	2,9	20	20	17	25,58	0,325
<b>1656107</b>	1x2,5	3,5	35	25	23	15,39	0,312
<b>1656108</b>	1x4	4,1	45	25	31	9,586	0,291
<b>1656109</b>	1x6	4,6	65	30	40	6,421	0,276
<b>1656110</b>	1x10	6,0	110	40	54	3,759	0,272
<b>1656111</b>	1x16	7,0	160	45	73	2,413	0,258
<b>1656112</b>	1x25	8,6	245	55	89	1,377	0,255
<b>1656113</b>	1x35	9,7	335	60	110	0,999	0,247
<b>1656114</b>	1x50	11,5	480	70	134	0,720	0,246
<b>1657115</b>	1x70	13,4	665	80	171	0,528	0,237
<b>1657116</b>	1x95	15,4	875	95	207	0,419	0,237
1657117	1x120	17,2	1.110	105	239	0,342	0,231
1657118	1x150	19,0	1.375	115	262	0,290	0,232
1657119	1x185	20,9	1.675	125	296	0,252	0,233
1657120	1x240	24,2	2.225	145	346	0,208	0,230

Codes in bold italic format are available from stock.

Codes for cables in boxes or coils start with 1656; in drums start with 1657.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY

# EXZHELLENT XXI ALARM

R02Z1-K

Low fire hazard

**exZhelent XXI**

R02Z1-K

## APPLICATIONS:

Power circuits in public premises and other installation when there is a high fire hazard, specially indicated in signal and control systems.

Minimum working temperature: -40 °C

## CONSTRUCTION:

Based on IEC 60502-1 & HD 21.14

### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductors to IEC 60228.

### 2. SECONDARY INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.  
Identification by colour.

### 3. SECONDARY INSULATION:

Aluminium polyester tape (O2).

### 4. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.



## RATED VOLTAGE:

300/500 V

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under screen (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b><i>7860206</i></b>	1x2x1,5	5,9	7,6	70	80	0,085	0,6403
<b><i>7860207</i></b>	1x2x2,5	6,7	8,8	100	90	0,102	0,5958

Codes in bold italic format are available from stock.

Codes for drum packaging. For coil packaging codes start 7862.

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSION  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



LOW TEMP.  
-40°C

# EXZHELLENT XXI

RZ1-K

Low fire hazard



RZ1-K

## APPLICATIONS:

Power circuits in public premises and other installation when there is a high fire hazard.

Maximum rating temperature: +90 °C

Minimum working temperature: -40 °C

## CONSTRUCTION:

IEC 60502-1 & UNE 21123-4

### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductors to IEC 60228.

Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections (Sectorflex<sup>®</sup> solution).

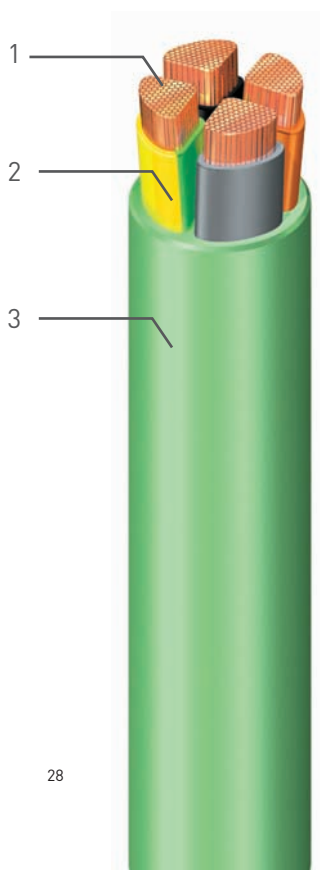
### 2. SECONDARY INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.

Identification by colour.

### 3. SECONDARY INSULATION:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.



## APPROVALS:



## RATED VOLTAGE:

0,6/1 kV

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1992106</b>	1x1,5	5,7	50	25	24	26	27,31	0,460
<b>1992107</b>	1x2,5	6,1	60	25	33	34	16,44	0,423
<b>1992108</b>	1x4	6,7	75	30	45	44	10,25	0,391
<b>1992109</b>	1x6	7,2	100	30	58	56	6,870	0,365
<b>1992110</b>	1x10	8,2	140	35	80	73	4,023	0,335
<b>1992111</b>	1x16	9,2	195	40	107	95	2,587	0,313
<b>1992112</b>	1x25	10,8	285	45	135	101	1,476	0,301
<b>1992113</b>	1x35	11,9	380	50	169	122	1,073	0,288
<b>1992114</b>	1x50	13,5	520	55	207	144	0,773	0,278
<b>1992115</b>	1x70	15,6	715	65	268	178	0,568	0,267
<b>1992116</b>	1x95	17,4	925	70	328	211	0,449	0,261
<b>1992117</b>	1x120	19,4	1.170	80	382	240	0,368	0,255
<b>1992118</b>	1x150	21,4	1.445	90	441	271	0,311	0,256
<b>1992119</b>	1x185	23,3	1.745	95	506	304	0,270	0,254
<b>1992120</b>	1x240	26,6	2.300	135	599	351	0,223	0,249
<b>1992121</b>	1x300	30,2	2.900	155	-	396	0,193	0,244
<b>1992122</b>	1x400	34,8	3.940	175	-	-	0,164	0,241
1992123	1x500	39,5	5.055	200	-	-	0,146	0,240
1992124	1x630	43,7	6.585	220	-	-	0,128	0,237

Codes in bold italic format are available from stock.

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX



LOW TEMP.  
-40°C

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20°C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1992206</b>	2x1,5	8,6	100	35	26	26	27,26	0,331
<b>1992207</b>	2x2,5	9,4	125	40	36	34	16,40	0,307
<b>1992208</b>	2x4	10,5	170	45	49	44	10,21	0,287
<b>1992209</b>	2x6	11,6	220	50	63	56	6,835	0,272
<b>1992210</b>	2x10	13,5	325	55	86	73	3,993	0,256
<b>1992211</b>	2x16	15,5	465	65	115	95	2,561	0,245
1992212	2x25	18,8	695	75	149	121	1,684	0,246
1992213	2x35	21,8	975	90	185	146	1,221	0,239
1998214*	2x50	21,3	1.150	85	225	173	0,876	0,236
1998215*	2x70	24,7	1.590	100	289	213	0,642	0,232
1998216*	2x95	27,7	2.060	140	352	252	0,506	0,228
1998217*	2x120	31,3	2.620	160	410	287	0,413	0,226
1998218*	2x150	34,5	3.230	175	473	324	0,349	0,228
1998219*	2x185	37,8	3.920	190	542	363	0,303	0,229
1998220*	2x240	43,3	5.180	220	641	419	0,248	0,226
<b>1992306</b>	3G1,5	9,0	115	40	26	26	27,26	0,331
<b>1992307</b>	3G2,5	9,9	150	40	36	34	16,40	0,307
<b>1992308</b>	3G4	11,1	205	45	49	44	10,21	0,287
<b>1992309</b>	3G6	12,3	275	50	63	56	6,835	0,272
<b>1992310</b>	3G10	14,3	410	60	86	73	3,993	0,256
<b>1992311</b>	3G16	16,5	595	70	115	95	2,561	0,245
<b>1992312</b>	3x25	20,0	900	80	127	101	1,458	0,246
<b>1992313</b>	3x35	23,3	1.265	95	158	122	1,057	0,239
<b>1998314*</b>	3x50	24,9	1.550	100	192	144	0,759	0,236
1998315*	3x70	29,2	2.160	150	346	178	0,556	0,232
1998316*	3x95	32,5	2.790	165	398	211	0,438	0,228
1998317*	3x120	36,7	3.545	185	346	240	0,358	0,226
1998318*	3x150	40,6	4.395	205	395	271	0,302	0,228
1998319*	3x185	44,3	5.315	225	450	304	0,262	0,229
1998320*	3x240	50,8	7.020	305	538	351	0,215	0,226
1998321*	3x300	57,7	8.850	350	-	396	0,186	0,223

Codes in bold italic format are available from stock.

Codes for drum packaging. For coil packaging codes start 1997.

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20°C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1992406</b>	4G1,5	9,9	140	40	23	22	23,61	0,331
<b>1992407</b>	4G2,5	10,9	185	45	31	29	14,20	0,307
<b>1992408</b>	4G4	12,2	255	50	42	37	8,839	0,287
<b>1992409</b>	G6	13,5	340	55	54	46	5,919	0,272
<b>1992410</b>	4G10	15,8	525	65	75	61	3,458	0,256
<b>1992411</b>	4G16	18,3	760	75	100	79	2,218	0,245
<b>1992412</b>	4x25	22,4	1.150	90	127	101	1,458	0,246
<b>1992413</b>	4x35	25,6	1.600	130	158	122	1,057	0,239
<b>1998414*</b>	4x50	27,5	2.065	140	192	144	0,759	0,236
<b>1998415*</b>	4x70	32,3	2.885	165	246	178	0,556	0,232
<b>1998416*</b>	4x95	35,9	3.730	180	298	211	0,438	0,228
<b>1998417*</b>	4x120	40,7	4.765	205	346	240	0,358	0,226
<b>1998418*</b>	4x150	44,9	5.890	225	395	271	0,302	0,228
<b>1998419*</b>	4x185	49,4	7.180	250	450	304	0,262	0,229
<b>1998420*</b>	4x240	56,6	9.480	340	538	351	0,215	0,226
1998421*	4x300	64,5	11.985	390	-	396	0,186	0,223
<b>1992506</b>	5G1,5	10,8	170	45	23	22	23,61	0,331
<b>1992507</b>	5G2,5	11,9	225	50	31	29	14,20	0,307
<b>1992508</b>	5G4	13,4	310	55	42	37	8,839	0,287
<b>1992509</b>	5G6	14,9	420	60	54	46	5,919	0,272
<b>1992510</b>	5G10	17,5	645	70	75	61	3,458	0,256
<b>1992511</b>	5G16	20,2	925	85	100	79	2,218	0,245
<b>1992512</b>	5G25	24,8	1.410	100	127	101	1,458	0,246
<b>1992513</b>	5G35	28,4	1.955	145	158	122	1,057	0,239
<b>1992514</b>	5G50	33,1	2.735	170	192	144	0,759	0,236
<b>1992515</b>	5G70	39,0	3.865	195	246	178	0,556	0,232
<b>1992516</b>	5G95	43,4	4.980	220	298	211	0,438	0,228
1992517	5G120	49,4	6.350	250	346	240	0,358	0,226
1992518	5G150	54,7	8.020	330	395	271	0,302	0,228

Codes in bold italic format are available from stock.

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# EXZHELLENT XXI

RZ1-K Multiconductor  
Low Fire Hazard Cables

**exZhelent XXI**

RZ1-K Multiconductor

## APPLICATIONS AND MAIN CHARACTERISTICS:

Control circuits in public premises and other installation when there is a high fire hazard.

Minimum working temperature: -40 °C.

## CONSTRUCTION:

IEC 60502-1 & UNE 21123-4

### 1. CONDUCTOR:

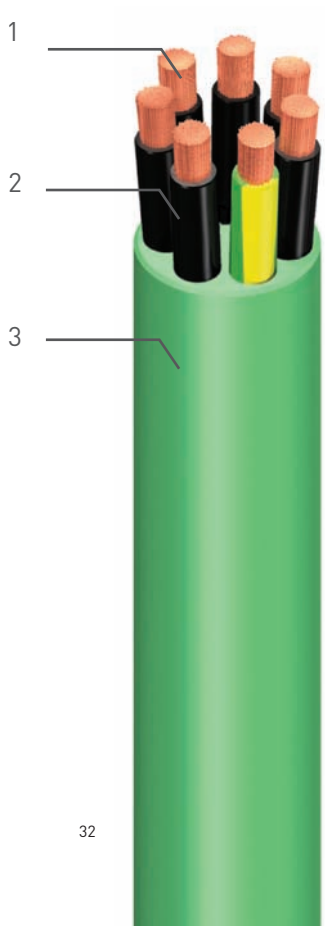
Plain annealed copper flexible class 5 according to IEC 60228.

### 2. INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.  
Identification by numbering.

### 3. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.



## APPROVALS:



## RATED VOLTAGE:

0,6/1 kV



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)
<b>2017066</b>	6G1,5	12,5	230	50
<b>2017067</b>	6G2,5	13,8	300	55
<b>2017076</b>	7G1,5	12,4	235	140
<b>2017077</b>	7G2,5	13,7	310	55
2017078	7G4	15,3	425	65
2017079	7G6	16,9	570	70
<b>2017086</b>	8G1,5	14,3	300	60
<b>2017087</b>	8G2,5	15,9	395	65
<b>2017106</b>	10G1,5	15,3	330	170
<b>2017126</b>	12G1,5	15,8	360	65
<b>2017127</b>	12G2,5	17,5	485	70
<b>2017166</b>	16G1,5	17,4	445	70
<b>2017196</b>	19G1,5	18,3	500	75
<b>2017246</b>	24G1,5	21,1	630	85
<b>2017306</b>	30G1,5	22,3	735	90

Codes in bold italic format are available from stock.

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY  
IEC 60228



SECTOR SHAPED  
CONDUCTOR SECTORFLEX



LOW TEMP.  
-40°C

# TWIN AND EARTH

## W-U / W-R

### PVC

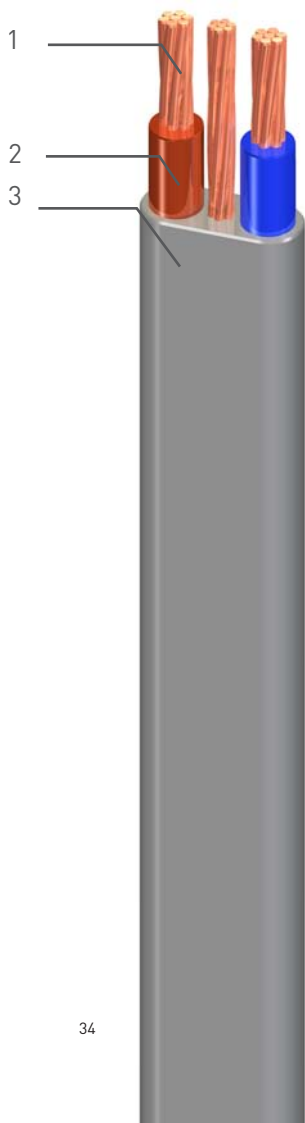
twin&earth   
W-U / W-R

#### APPLICATIONS AND MAIN CHARACTERISTICS:

Domestic wiring cable for the surface wiring of sockets and lighting. Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where mechanical damage would not be an issue. Suitable for laying in conduit or trunking where mechanical protection is required.

Maximum rating temperature: +70 °C  
Minimum working temperature: -15 °C

#### CONSTRUCTION:



#### BS 6004

##### 1. CONDUCTOR:

Class 1 (-U) solid or class 2 (-R) stranded copper conductor to BS-EN 60228

##### 2. INSULATION:

Polyvinyl Chloride -PVC- (V), type T11 to BS-EN 50363-3

##### 3. SHEATH:

Polyvinyl Chloride -PVC- (V), type 6 to BS 7655-4-2

#### APPROVALS:



#### RATED VOLTAGE:

300/500 V

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
1206205	2x1 + 1	4,1	65	20	10	37,46	0,333
1206206	2x1,5 + 1	4,6	85	20	22	25,59	0,331
1206207	2x2,5 + 1,5	5,3	120	75	30	15,40	0,319
1206208	2x4 + 1,5	5,9	160	25	40	9,589	0,297
1206209	2x6 + 2,5	6,7	220	30	51	6,418	0,280
1206210	2x10 + 4	8,2	355	35	70	3,749	0,268

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation E for cross-sections from 1.5 mm<sup>2</sup> and over. For cross-section up to 1 mm<sup>2</sup>, HD 516 table 7 (a) values are used.

**PERFORMANCE STANDARDS:**



FLAME RETARDANT  
IEC 60332-1-2



# GENLIS-R

H07V-U / H07V-R / H05V-U

(60227 IEC 01 / 05)

PVC

**genlis**

H07V-U / H07V-R  
/ H05V-U

## APPLICATIONS:

Suitable in installations in surface mounted or embedded conduits, or similar closed systems.

Suitable for protected installation in or on lighting fittings and inside appliances, switchgear and controlgear

Maximum rating temperature: +70 °C

Minimum working temperature: -15 °C

## CONSTRUCTION:

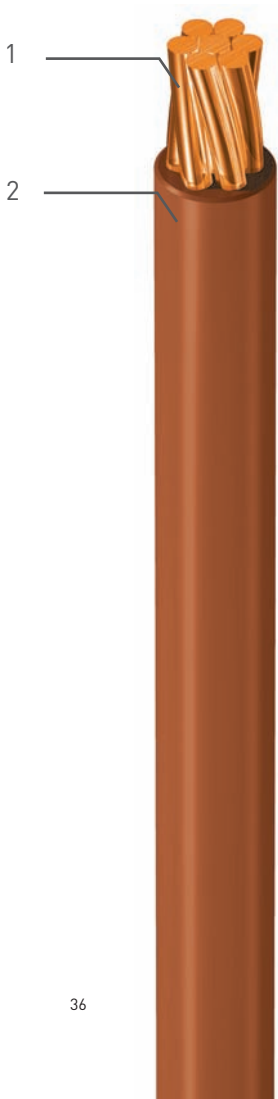
IEC 60227-3, HD 21.3 & BS 6004

### 1. CONDUCTOR:

Class 1 (-U) solid or class 2 (-R) stranded copper conductor to IEC 60228.

### 2. INSULATION:

Polyvinyl Chloride -PVC- (V), type T11 to EN 50363-3 and type PVC/C to IEC 60227-1.



## APPROVALS:



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## RATED VOLTAGE:

450/750 V for H07V-U & H07V-R

300/500 V for H05V-U

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2

**PHYSICAL AND ELECTRICAL  
CHARACTERISTICS:**

**H07V-U (60227 IEC 01)**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b>1172106</b>	1x1,5	2,8	20	20	17	26,67	0,365
<b>1172107</b>	1x2,5	3,3	35	20	23	26,67	0,354
1172108	1x4	3,8	50	25	31	33,33	0,333
1172109	1x6	4,3	65	30	40	40,00	0,316
1172110	1x10	5,6	115	35	54	46,67	0,312

Codes in bold italic format are available from stock.

Codes for cables in boxes start with 1172; in drums start with 1167.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors.

**H05V-U (60227 IEC 05)**

1170103	1x0,5	2,0	10	15	3	69,07	0,406
1170104	1x0,75	2,2	15	15	6	47,05	0,384
1170105	1x1	2,3	15	15	10	34,79	0,369

Current ratings according to HD 516 table 7 (a)..

**H07V-R (60227 IEC 01)**

1173106	1x1,5	2,9	25	20	17	23,29	0,338
1173107	1x2,5	3,4	35	25	23	14,31	0,328
1173108	1x4	3,9	50	25	31	8,942	0,308
1173109	1x6	4,5	65	30	40	6,006	0,291
1173110	1x10	5,8	110	35	54	3,612	0,288
1173111	1x16	6,6	165	40	73	2,305	0,275
1173112	1x25	8,2	260	50	89	1,294	0,272
1173113	1x35	9,1	350	55	110	0,955	0,264
1173114	1x50	10,7	480	65	134	0,727	0,261
1168115	1x70	12,3	670	75	171	0,526	0,250
1168116	1x95	14,3	915	90	207	0,400	0,245
1168117	1x120	15,8	1.145	95	239	0,332	0,239
1168118	1x150	17,5	1.405	105	262	0,284	0,239
1168119	1x185	19,5	1.765	120	296	0,242	0,237
1168120	1x240	22,6	2.325	140	346	0,202	0,235

Codes for cables in boxes start with 1173; in drums start with 1168.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.

# GENLIS-F

H05V-K / H07V-K  
(60227 IEC 06/02)  
PVC



H05V-K / H07V-K

## APPLICATIONS:

Suitable in installations in surface mounted or embedded conduits, or similar closed systems.  
Suitable for protected installation in or on lighting fittings and inside appliances, switchgear and controlgear

Maximum rating temperature: +70 °C  
Minimum working temperature: -15 °C

## CONSTRUCTION:

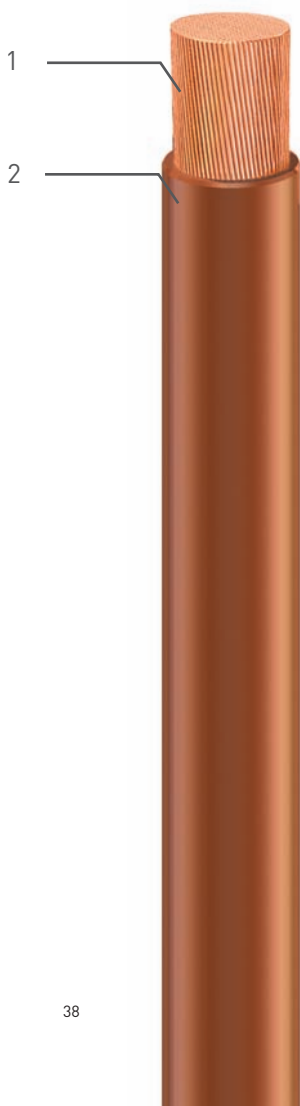
IEC 60227-3, HD 21.3 & BS 6004.

### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductor to IEC 60228.

### 2. INSULATION:

Polyvinyl Chloride -PVC- (V), type TI2 to EN 50363-3 and type PVC/D to IEC 60227-1.



## APPROVALS:



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## RATED VOLTAGE:

450/750 V for H07V-K  
300/500 for H05V-K

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2



FLEXIBILITY

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

**H07V-K (60227 IEC 02)**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b>1174106</b>	1x1,5	2,9	20	20	17	25,58	0,325
<b>1174107</b>	1x2,5	3,5	35	25	23	15,39	0,312
<b>1174108</b>	1x4	4,1	45	25	31	9,586	0,291
<b>1174109</b>	1x6	4,6	65	30	40	6,421	0,276
<b>1174110</b>	1x10	6,0	110	40	54	3,759	0,272
<b>1174111</b>	1x16	7,0	160	45	73	2,413	0,258
1174112	1x25	8,6	250	55	89	1,377	0,255
1174113	1x35	9,7	340	60	110	0,999	0,247
1174114	1x50	11,5	480	70	134	0,720	0,246
1169115	1x70	13,4	665	80	171	0,528	0,237
1169116	1x95	15,4	880	95	207	0,419	0,237
1169117	1x120	17,2	1.110	105	239	0,342	0,231
1169118	1x150	19,0	1.380	115	262	0,290	0,232
1169119	1x185	20,9	1.680	125	296	0,252	0,233
1169120	1x240	24,2	2.235	145	346	0,208	0,230

Codes in bold italic format are available from stock.

Codes for cables in boxes/coils start with 1174; in drums start with 1169.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>.

**H05V-K (60227 IEC 06)**

1171103	1x0,5	2,1	10	15	3	74,80	0,366
1171104	1x0,75	2,3	15	15	6	49,90	0,341
1171105	1x1	2,5	15	15	10	37,45	0,327

\* Current ratings according to HD 516 table 7 (a).

# TRI-RATED

V 105 °C  
PVC

**TRI-RATED**  
V 105 °C

## APPLICATIONS:

High temperature cable designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

Maximum rating temperature: +105 °C  
Minimum working temperature: -15 °C

## CONSTRUCTION:

BS 6231 / UL 83 / CSA C22.2

### 1. CONDUCTOR:

Class 5 flexible copper conductor to IEC 60228.

### 2. INSULATION:

Polyvinyl Chloride -PVC- (V), type TI3 to EN 50363-3.



## APPROVALS:



## RATED VOLTAGE:

600/1000 V



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
1630105	1x1	2,9	20	20	10	37,47	0,357
1630106	1x1,5	3,1	25	20	17	25,59	0,338
1630107	1x2,5	3,5	30	25	23	15,39	0,312
1630108	1x4	4,1	45	25	31	9,586	0,291
1630109	1x6	4,6	65	30	40	6,421	0,276
1630110	1x10	6,4	115	40	54	3,764	0,285
1630111	1x16	8,2	180	50	73	2,426	0,290
1630112	1x25	9,4	260	60	89	1,382	0,273
1630113	1x35	10,5	350	65	110	1,004	0,263
1630114	1x50	12,9	515	80	134	0,728	0,269
1630115	1x70	14,8	705	90	171	0,535	0,257
1630116	1x95	16,4	905	100	207	0,423	0,249
1630117	1x120	18,2	1.140	110	239	0,346	0,243
1630118	1x150	20,4	1.430	125	262	0,294	0,246
1630119	1x185	21,9	1.715	135	296	0,255	0,242
1630120	1x240	24,8	2.245	150	346	0,210	0,235

Cables in Europack up to 6 mm<sup>2</sup> inclusive and in drums from 10 mm<sup>2</sup> onwards.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation B1, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup>. For cross-section of 1 mm<sup>2</sup>, HD 516 table 7 (a) values are used.

**PERFORMANCE STANDARDS:**



FLAME RETARDANT  
IEC 60332-1-2



FLEXIBILITY

# BIGGFLEX

H05W-F

{60227 IEC 53 }

PVC, mobile service

## APPLICATIONS:

Used for installations and connections of electrical apparatus, fixed or mobile.

Maximum rating temperature: +70 °C.

Minimum working temperature: -15 °C.

## CONSTRUCTION:

IEC 60227-5 & HD 21.5

### 1. CONDUCTOR:

Class 5 (-F) flexible copper conductor to IEC 60228.

### 2. CABLE:

Polyvinyl Chloride -PVC- (R), type TI2 to EN 50363-3 and type PVC/D to IEC 60227-1.

### 3. SHEATH:

Polyvinyl Chloride -PVC- (R), type TM2 to EN 50363-4-1 and type PVC/ST5 to IEC 60227-1.



## APPROVALS:



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## RATED VOLTAGE:

300/500 V

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
1175204	2x0,75	6,2	60	40	6	49,91	0,348
<b>1175205</b>	2x1	6,5	65	40	10	37,46	0,333
<b>1175206</b>	2x1,5	7,4	85	45	22	25,59	0,331
<b>1175207</b>	2x2,5	9,0	130	55	30	15,40	0,319
<b>1175208</b>	2x4	10,3	180	65	40	9,589	0,297
<b>1176304</b>	3G0,75	6,6	70	40	6	49,91	0,348
<b>1176305</b>	3G1	6,9	80	45	10	37,46	0,333
<b>1176306</b>	3G1,5	8,1	110	50	22	25,59	0,331
<b>1176307</b>	3G2,5	9,8	165	60	30	15,40	0,319
<b>1176308</b>	3G4	11,1	225	70	40	9,589	0,297
1176404	4G0,75	7,2	85	45	6	43,22	0,348
<b>1176405</b>	4G1	7,7	100	50	10	32,44	0,333
<b>1176406</b>	4G1,5	9,0	135	55	19	22,16	0,331
<b>1176407</b>	4G2,5	10,7	200	65	25	13,33	0,319
1176408	4G4	12,2	275	75	34	8,304	0,297
1176504	5G0,75	8,1	105	50	6	43,22	0,348
1176505	5G1	8,5	120	55	10	32,44	0,333
1176506	5G1,5	10,1	170	65	19	22,16	0,331
1176507	5G2,5	12,0	250	75	25	13,33	0,319
1176508	5G4	13,8	355	85	34	8,304	0,297

Codes in bold italic format are available from stock.

Codes for cables in coils of 100 meters start with 1175 or 1176.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation E for cross-sections from 1.5 mm<sup>2</sup> and over. For cross-section up to 1 mm<sup>2</sup>, HD 516 table 7 (a) values are used.

**PERFORMANCE STANDARDS:**



FLAME RETARDANT  
IEC 60332-1



FLEXIBILITY

# TENAFLEX 750

## H07RN-F

Rubber, mobile service

**TENAFLEX**

H07RN-F

### APPLICATIONS:

Flexible cables for mobile services.  
Indoor and outdoor use to supply all industrial, agricultural and domestic appliances requiring medium mechanical stress.

Good oil resistance.

TENAFLEX 750 cables are certified with the HAR quality trademark.

Maximum rating temperature: +60 °C  
Minimum working temperature: -35 °C

### CONSTRUCTION:

IEC 60245-4 EN 50525-2-21 ( HD 22.4)

#### 1. CONDUCTOR:

Class 5 (-F) flexible copper conductors to IEC 60228.

#### 2. INSULATION:

Ethylene propylene rubber -EPR-(R), type EI4 to EN 50363-1 and type IE4 to IEC 60227-1.

#### 3. SHEATH:

Polychloroprene -PCP- (N), type EM2 to EN 50363-2-1 and type SE3 to IEC 60227-1.



### APPROVALS:

### RATED VOLTAGE:

450/750 V



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**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum Bending radius (mm)	Maximum current rating Air 30°C* (A)
1805106	1x1,5	5,9	50	35	16
<b><i>1805107</i></b>	1x2,5	6,5	70	40	25
1805108	1x4	7,5	90	45	34
1805109	1x6	8,4	120	55	43
1805110	1x10	10,2	190	65	60
1805111	1x16	11,4	255	70	79
1805112	1x25	13,2	365	80	104
1805113	1x35	14,7	480	90	129
1805114	1x50	16,9	660	105	162
1805115	1x70	19,2	890	115	202
1805116	1x95	21,6	1.150	130	240
1805117	1x120	23,8	1.435	145	280
1805118	1x150	26,0	1.755	160	321
1805119	1x185	28,3	2.105	170	363
1805120	1x240	31,8	2.745	195	433
1805121	1x300	35,6	3.410	215	497
1805206	2x1,5	9,2	120	55	16
1805207	2x2,5	10,8	170	65	25
1805208	2x4	12,5	235	75	34
1805209	2x6	14,5	320	90	43
1805210	2x10	19,4	565	120	60
1805211	2x16	21,8	755	135	79
1805212	2x25	25,7	1.020	155	105

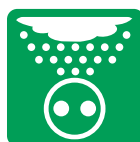
Codes in bold italic format are available from stock.

\* Maximum current rating according to standard HD 516 Tables 7(b) and 7(c).

**PERFORMANCE STANDARDS:**



FLEXIBILITY



OUTDOOR



OIL RESISTANT



FLAME RETARDANT  
IEC 60332-1-2

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum Bending radius (mm)	Maximum current rating Air 30°C* (A)
1805215	2x35	37,7	2.425	230	129
<b>1805306</b>	3G1,5	9,9	145	60	16
<b>1805307</b>	3G2,5	11,6	205	70	25
<b>1805308</b>	3G4	13,4	285	80	35
<b>1805309</b>	3G6	15,5	390	95	44
1805310	3G10	20,8	700	125	53
1805311	3G16	23,4	900	140	82
1805312	3x25	27,6	1.300	165	89
1805313	3x35	30,5	1.690	185	110
1805314	3x50	35,2	2.310	215	138
1805315	3x70	39,9	3.105	240	172
1805316	3x95	45,1	4.030	275	204
1805317	3x120	49,7	4.995	300	238
1805318	3x150	54,9	6.160	330	273
1805319	3x185	59,5	7.365	360	309
1805320	3x240	68,1	9.730	410	365
<b>1805406</b>	4G1,5	10,9	175	65	16
<b>1805407</b>	4G2,5	12,8	250	80	20
<b>1805408</b>	4G4	14,8	350	90	30
<b>1805409</b>	4G6	17,3	495	105	37
1805410	4G10	22,7	855	140	52
1805411	4G16	25,6	1.120	155	69
1805412	4x25	30,6	1.650	185	92
1805413	4x35	33,8	2.145	205	114
1805414	4x50	39,0	2.935	235	143
1805415	4x70	44,4	3.985	270	178
1805416	4x95	50,5	5.195	305	210
1805417	4x120	55,2	6.380	335	246
1805418	4x150	61,0	7.900	370	282
1805419	4x185	65,8	9.380	395	319
1805420	4x240	75,8	12.490	455	377

Codes in bold italic format are available from stock.

\* Maximum current rating according to standard HD 516 Tables 7(b) and 7(c).

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum Bending radius (mm)	Maximum current rating Air 30°C* (A)
<b>1805506</b>	5G1,5	12,0	215	75	16
<b>1805507</b>	5G2,5	14,1	310	85	20
<b>1805508</b>	5G4	16,5	445	100	30
1805509	5G6	19,3	615	120	38
1805510	5G10	25,1	1.055	155	54
1805511	5G16	28,4	1.400	175	71
1805512	5G25	33,9	2.055	205	94
1805513	5G35	37,9	2.695	230	114
1805514	5G50	43,8	3.705	265	143
1805515	5G70	49,2	4.935	295	178
1805516	5G95	55,7	6.420	335	210

*Codes in bold italic format are available from stock.*

\* Maximum current rating according to standard HD 516 Tables 7(b) and 7(c).

# ENERGY

RV  
PVC



RV

## APPLICATIONS:

Power and control cable designed for fixed applications.

Maximum rating temperature: +90 °C

Minimum working temperature: -15 °C

## CONSTRUCTION:

IEC 60502-1 & UNE 21123-2

### 1. CONDUCTOR:

Class 1 (-U) solid or class 2 (-R) stranded plain copper conductor to IEC 60228.

### 2. INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.

### 3. SHEATH:

Polyvinyl Chloride -PVC- (V), type ST8 to IEC 60502-1.



## APPROVALS:



## RATED VOLTAGE:

600/1000 V

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C* (A)	Maximum current rating Buried 20 °C** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
<b>1060106</b>	1x1,5	5,6	50	60	24	26	24,88	0,505
<b>1060107</b>	1x2,5	5,9	60	60	33	34	15,30	0,470
<b>1060108</b>	1x4	6,4	75	65	45	44	9,570	0,437
<b>1060109</b>	1x6	7,1	100	30	58	56	6,428	0,382
<b>1060110</b>	1x10	8,0	140	35	80	73	3,867	0,353
<b>1060111</b>	1x16	8,9	200	35	107	95	2,471	0,332
<b>1060112</b>	1x25	10,4	295	45	135	101	1,389	0,320
<b>1060113</b>	1x35	11,5	395	50	169	122	1,026	0,306
<b>1060114</b>	1x50	12,7	515	55	207	144	0,781	0,298
<b>1060115</b>	1x70	14,5	720	145	268	178	0,566	0,283
<b>1060116</b>	1x95	16,3	965	165	328	211	0,429	0,271
<b>1060117</b>	1x120	18,0	1.205	180	382	240	0,357	0,265
<b>1060118</b>	1x150	19,9	1.475	200	441	271	0,305	0,264
<b>1060119</b>	1x185	21,9	1.835	220	506	304	0,260	0,261
<b>1060120</b>	1x240	25,0	2.400	250	599	351	0,216	0,255
<b>1060121</b>	1x300	27,6	2.980	280	-	396	0,188	0,252
1060122	1x400	30,8	3.825	155	-	-	0,164	0,249
1060123	1x500	35,5	4.895	180	-	-	0,144	0,244
1060124	1x630	40,1	6.330	200	-	-	0,129	0,242
1870206	2x1,5	8,9	120	70	26	26	24,83	0,372
1870207	2x2,5	9,6	150	75	36	34	15,25	0,349
1870208	2x4	10,6	195	80	49	44	9,529	0,328
1870209	2x6	12,2	265	95	63	56	6,392	0,287
1870210	2x10	13,9	380	105	86	73	3,836	0,272
<b>1060211</b>	2x16	16,2	555	125	115	95	2,445	0,261
<b>1060212</b>	2x25	19,4	835	150	149	121	1,582	0,262
<b>1060213</b>	2x35	21,3	1.065	85	185	146	1,165	0,254
<b>1060214</b>	2x50	23,8	1.380	95	225	173	0,885	0,253
1060215	2x70	27,4	1.915	140	289	213	0,639	0,244
1060216	2x95	31,6	2.610	160	352	252	0,482	0,234
1060217	2x120	35,0	3.255	175	410	287	0,400	0,233
1060218	2x150	38,6	3.970	195	473	324	0,341	0,234
1060219	2x185	43,0	4.955	215	542	363	0,290	0,233
1060220	2x240	48,2	6.410	245	641	419	0,240	0,230

Codes in bold italic format are available from stock.

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C*	Maximum current rating Buried 20 °C**	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1870306</b>	3G1,5	9,3	135	70	26	26	24,83	0,372
<b>1870307</b>	3G2,5	10,1	175	80	36	34	15,25	0,349
<b>1870308</b>	3G4	11,1	230	85	49	44	9,529	0,328
<b>1870309</b>	3G6	12,8	320	100	63	56	6,392	0,287
<b>1870310</b>	3G10	14,7	465	110	86	73	3,836	0,272
<b>1060311</b>	3G16	17,2	695	130	115	95	2,445	0,261
<b>1060312</b>	3x25	20,6	1.050	155	127	101	1,370	0,262
1060313	3x35	22,7	1.360	95	158	122	1,009	0,254
1060314	3x50	25,4	1.780	130	192	144	0,766	0,253
1060315	3x70	29,5	2.505	150	346	178	0,553	0,244
1060316	3x95	33,8	3.405	170	398	211	0,417	0,234
1060317	3x120	37,4	4.265	190	346	240	0,346	0,233
1060318	3x150	41,5	5.225	210	395	271	0,295	0,234
1060319	3x185	46,2	6.530	235	450	304	0,251	0,233
1060320	3x240	51,8	8.475	315	538	351	0,208	0,230
1060321	3x300	57,7	10.600	350	-	396	0,180	0,227
<b>1870406</b>	4G1,5	10,2	160	80	23	22	21,50	0,372
<b>1870407</b>	4G2,5	11,1	210	85	31	29	13,21	0,349
<b>1870408</b>	4G4	12,2	280	95	42	37	8,252	0,328
<b>1870409</b>	G6	14,1	390	110	54	46	5,536	0,287
<b>1870410</b>	4G10	16,2	575	125	75	61	3,322	0,272
<b>1060411</b>	4G16	18,7	860	140	100	79	2,117	0,261
<b>1060412</b>	4x25	22,6	1.305	170	127	101	1,370	0,262
<b>1060413</b>	4x35	24,9	1.710	100	158	122	1,009	0,254
<b>1060414</b>	4x50	28,2	2.255	145	192	144	0,766	0,253
1060415	4x70	32,7	3.180	165	246	178	0,553	0,244
1060416	4x95	37,5	4.325	190	298	211	0,417	0,234
1060417	4x120	41,7	5.470	210	346	240	0,346	0,233
1060418	4x150	46,1	6.670	230	395	271	0,295	0,234
1060419	4x185	51,5	8.360	310	450	304	0,251	0,233
1060420	4x240	57,7	10.865	350	538	351	0,208	0,230
1060421	4x300	64,3	13.595	390	-	396	0,180	0,227

Codes in bold italic format are available from stock.

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C*	Maximum current rating Buried 20 °C**	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
<b>1870506</b>	5G1,5	11,0	190	85	23	22	21,50	0,372
<b>1870507</b>	5G2,5	12,0	250	90	31	29	13,21	0,349
<b>1870508</b>	5G4	13,3	340	100	42	37	8,252	0,328
<b>1870509</b>	5G6	15,4	470	115	54	46	5,536	0,287
<b>1870510</b>	5G10	17,7	700	135	75	61	3,322	0,272
<b>1060511</b>	5G16	20,5	1.040	155	100	79	2,117	0,261
<b>1060512</b>	5G25	24,9	1.590	190	127	101	1,370	0,262
<b>1060513</b>	5G35	27,5	2.115	140	158	122	1,009	0,254
<b>1060514</b>	5G50	31,3	2.800	160	192	144	0,766	0,253
1060515	5G70	36,4	3.950	185	246	178	0,553	0,244
1060516	5G95	41,9	5.415	210	298	211	0,417	0,234
1060517	5G120	46,5	6.805	235	346	240	0,346	0,233
1060518	5G150	51,5	8.330	310	395	271	0,295	0,234

Codes in bold italic format are available from stock.

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# ENERGY

RV-K

PVC



RV-K

## APPLICATIONS:

A flexible power and control cable designed for fixed applications. Manufactured with flexible conductors in order to facilitate installation.

Maximum rating temperature: +90 °C  
Minimum working temperature: -15 °C

## CONSTRUCTION:

IEC 60502-1 & UNE 21123-2

### 1. CONDUCTOR:

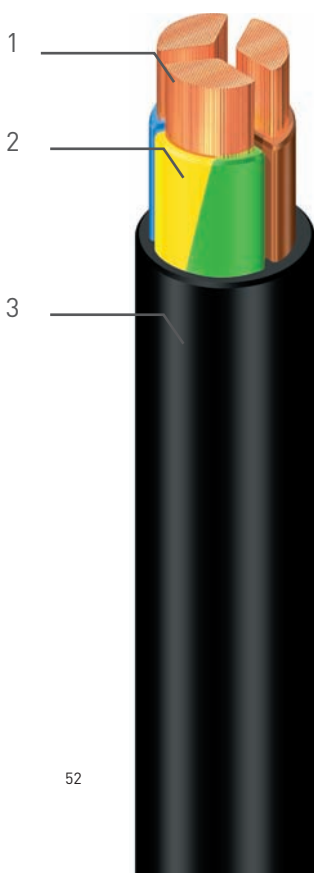
Class 5 (-K) flexible copper conductors to IEC 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections (Sectorflex<sup>®</sup> solution).

### 2. INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.

### 3. SHEATH:

Polyvinyl Chloride -PVC- (V), type ST2 to IEC 60502-1.



## APPROVAL:



## RATED VOLTAGE:

600/1000 V

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20 °C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
<b>1994106</b>	1x1,5	5,7	45	25	24	26	27,31	0,460
<b>1994107</b>	1x2,5	6,1	60	25	33	34	14,24	0,423
<b>1994108</b>	1x4	6,7	75	30	45	44	8,873	0,391
<b>1994109</b>	1x6	7,2	95	30	58	56	5,950	0,365
<b>1994110</b>	1x10	8,2	140	35	80	73	3,484	0,335
<b>1994111</b>	1x16	9,2	195	40	107	95	2,240	0,313
<b>1994112</b>	1x25	10,8	285	45	135	101	1,476	0,301
<b>1994113</b>	1x35	11,9	380	50	169	122	1,073	0,288
<b>1994114</b>	1x50	13,5	520	55	207	144	0,773	0,278
<b>1994115</b>	1x70	15,6	715	65	268	178	0,568	0,267
<b>1994116</b>	1x95	17,4	925	70	328	211	0,449	0,261
<b>1994117</b>	1x120	19,4	1.165	80	382	240	0,368	0,255
<b>1994118</b>	1x150	21,4	1.440	90	441	271	0,311	0,256
<b>1994119</b>	1x185	23,3	1.740	95	506	304	0,270	0,254
<b>1994120</b>	1x240	26,6	2.295	135	599	351	0,223	0,249
1994121	1x300	30,2	2.895	155	-	396	0,193	0,244
1994122	1x400	34,8	3.930	175	-	-	0,164	0,241
1994123	1x500	39,1	5.015	200	-	-	0,146	0,238
1994124	1x630	43,7	6.585	220	-	-	0,128	0,237
<b>1994206</b>	2x1,5	8,6	100	35	26	26	27,26	0,331
<b>1994207</b>	2x2,5	9,4	130	40	36	34	16,40	0,307
<b>1994208</b>	2x4	10,5	175	45	49	44	10,21	0,287
<b>1994209</b>	2x6	11,6	225	50	63	56	6,835	0,272
<b>1994210</b>	2x10	13,5	330	55	86	73	3,993	0,256
<b>1994211</b>	2x16	15,5	470	65	115	95	2,561	0,245
1994212	2x25	18,8	705	75	149	121	1,684	0,246
1994213	2x35	21,2	950	85	185	146	1,221	0,239
1999214*	2x50	21,3	1.160	85	225	173	0,876	0,236
1999215*	2x70	24,7	1.600	100	289	213	0,642	0,232
1999216*	2x95	27,7	2.080	140	352	252	0,506	0,228
1999217*	2x120	31,3	2.645	160	410	287	0,413	0,226
1999218*	2x150	34,5	3.260	175	473	324	0,349	0,228
1999219*	2x185	37,8	3.955	190	542	363	0,303	0,229
1999220*	2x240	43,3	5.225	220	641	419	0,248	0,226

Codes in bold italic format are available from stock.

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20 °C *** (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b>1994306</b>	3G1,5	9,0	115	40	26	26	27,26	0,331
<b>1994307</b>	3G2,5	9,9	155	40	36	34	16,40	0,307
<b>1994308</b>	3G4	11,1	210	45	49	44	10,21	0,287
<b>1994309</b>	3G6	12,3	275	50	63	56	6,835	0,272
<b>1994310</b>	3G10	14,3	420	60	86	73	3,993	0,256
<b>1994311</b>	3G16	16,5	605	70	115	95	2,561	0,245
<b>1994312</b>	3x25	20,0	910	80	127	101	1,458	0,246
1994313	3x35	22,7	1.230	95	158	122	1,057	0,239
1999314*	3x50	24,9	1.555	100	192	144	0,759	0,236
1999315*	3x70	29,2	2.170	150	346	178	0,556	0,232
1999316*	3x95	32,5	2.805	165	398	211	0,438	0,228
1999317*	3x120	36,7	3.565	185	346	240	0,358	0,226
1999318*	3x150	40,6	4.420	205	395	271	0,302	0,228
1999319*	3x185	44,3	5.340	225	450	304	0,262	0,229
1999320*	3x240	50,8	7.055	305	538	351	0,215	0,226
1999321*	3x300	57,9	8.915	350	-	396	0,186	0,223
<b>1994406</b>	4G1,5	9,9	140	40	23	22	23,61	0,331
<b>1994407</b>	4G2,5	10,9	190	45	31	29	14,20	0,307
<b>1994408</b>	4G4	12,2	255	50	42	37	8,839	0,287
<b>1994409</b>	G6	13,5	345	55	54	46	5,919	0,272
<b>1994410</b>	4G10	15,8	530	65	75	61	3,458	0,256
<b>1994411</b>	4G16	18,3	765	75	100	79	2,218	0,245
<b>1994412</b>	4x25	22,4	1.165	90	127	101	1,458	0,246
<b>1994413</b>	4x35	25,1	1.570	125	158	122	1,057	0,239
<b>1999414*</b>	4x50	27,5	2.075	140	192	144	0,759	0,236
1999415*	4x70	32,3	2.900	165	246	178	0,556	0,232
1999416*	4x95	35,6	3.735	180	298	211	0,438	0,228
1999417*	4x120	40,5	4.775	205	346	240	0,358	0,226
1999418*	4x150	44,6	5.895	225	395	271	0,302	0,228
1999419*	4x185	49,2	7.190	250	450	304	0,262	0,229
1999420*	4x240	56,4	9.495	340	538	351	0,215	0,226
1999421*	4x300	64,2	12.010	385	-	396	0,186	0,223

Codes in bold italic format are available from stock.

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C*	Maximum current rating Buried 20 °C***	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
<b>1994506</b>	5G1,5	10,8	170	45	23	22	23,61	0,331
<b>1994507</b>	5G2,5	11,9	230	50	31	29	14,20	0,307
<b>1994508</b>	5G4	13,4	315	55	42	37	8,839	0,287
<b>1994509</b>	5G6	14,9	425	60	54	46	5,919	0,272
<b>1994510</b>	5G10	17,5	650	70	75	61	3,458	0,256
<b>1994511</b>	5G16	20,2	935	85	100	79	2,218	0,245
<b>1994512</b>	5G25	24,8	1.415	100	127	101	1,458	0,246
<b>1994513</b>	5G35	27,8	1.915	140	158	122	1,057	0,239
1994514	5G50	32,5	2.685	165	192	144	0,759	0,236
1994515	5G70	39,4	4.050	200	246	178	0,556	0,232
1994516	5G95	44,2	5.265	225	298	211	0,438	0,228
1994517	5G120	50,0	6.705	300	346	240	0,358	0,226
1994518	5G150	55,3	8.295	335	395	271	0,302	0,228

Codes in bold italic format are available from stock.

Codes for drum packaging. For coil packaging codes start 1998.

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# CABLEPACK

Pre-wired solutions

Energy, coaxial & telephone

## APPLICATIONS:

Cablepack is a pliable conduit with cables inside. With the pre-wired conduit it is possible to do electric installations in half time, working more efficiently by reducing costs.

Maximum rating temperature: +90°C  
Minimum working temperature: -15°C

## CONSTRUCTION:

### 1. CONDUIT:

Polypropylene according to IEC 61386-2-2. ICTA 3422.

### 2. CABLE:

Complete range of cable types: H07V-U/-R/-K (60227 IEC 01/02); H07Z-R; H07Z1-R/-K Type 2.

## APPROVALS:

AENOR < HAR >



## RATED VOLTAGE:

450/750 V

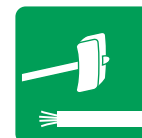
## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2



FLEXIBILITY



IMPACT RESISTANCE



COMPRESION  
RESISTANCE  
750N

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

Main combinations	ø conduit	Packaging
<b><i>Cablepack 2x1x1,5</i></b>	16	Coils 100 m
<b><i>Cablepack 3x1x1,5</i></b>	20	Coils 100 m
<b><i>Cablepack 3x1x2,5</i></b>	20	Coils 100 m
<b><i>Cablepack 3x1x4</i></b>	20	Coils 50 m
<b><i>Cablepack 3x1x6</i></b>	25	Coils 50 m
<b><i>Cablepack Coaxial</i></b>	20	Coils 100 m
<b><i>Cablepack Telephone 2x2x0,51</i></b>	20	Coils 100 m

Combinations in bold italic format are available from stock





# ARMoured CABLES

# GENFIRE (SEGURFOC)

RZ1MZ1 Mica

Armoured, fire resistant

**GENFIRE**

RZ1MZ1 Mica

## APPLICATIONS:

Essential safety circuits associated with fire fighting equipment, emergency lighting and particularly for power supplies to building equipment used in safety systems. With special fire performance such as fire retardancy, halogen-free and low emission of smoke and fumes.

Maximum rating temperature: +90 °C

Minimum working temperature: -25 °C

## CONSTRUCTION:

BS 7846:2009 category F2



### 1. CONDUCTOR

Class 2 stranded copper conductor to BS-EN 60228.

Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections

### 2. PRIMARY INSULATION

Mineral ceramic fire resistant tape (Mica).

### 3. SECONDARY INSULATION

Crosslinked polyethylene – XLPE- ( R ) type GP8 to BS 7655-1.3.

### 4. BEDDING

Halogen free thermoplastic polyolefin (Z1).

### 5. ARMOUR

Galvanised steel wires (M) for multicolore cables and aluminium wires (MA) for single core cables.

### 6. SHEATH

Halogen-free thermoplastic polyolefin (Z1), type LT51 to BS 7655-6.1.

Colour: Black. Other colours on request.

## APPROVALS:

BS 6387 cat CWZ

## RATED VOLTAGE:

0,6/1 kV



BS 7846:2000 Cert. N° 730a

In process with LPCB change of brand name SegurfoC by Genfire

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
7367114	1x50	12,2	17,0	690	170	207	144	0,800	0,356
7367115	1x70	14,0	20,2	990	205	268	178	0,587	0,349
7367116	1x95	15,8	22,2	1.275	225	328	211	0,448	0,329
7367117	1x120	17,4	23,8	1.545	240	382	240	0,375	0,319
7367118	1x150	19,5	26,1	1.825	265	441	271	0,323	0,317
7367119	1x185	21,6	28,4	2.235	285	506	304	0,276	0,310
7367120	1x240	24,5	31,3	2.840	315	599	351	0,232	0,303
7367121	1x300	27,1	34,1	3.475	345	-	396	0,202	0,294
7367122	1x400	30,6	38,6	4.475	390	-	-	0,179	0,294
7367124	1x630	39,3	47,7	7.120	480	-	-	0,140	0,277

Single core cables not included in LPCB & BASEC approval

**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
BS 6387  
CATEGORY CWZ  
EN 50200 PH 120



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIIVITY  
IEC 60754-2



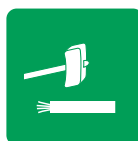
LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY  
(class 2 flexible option)



SECTOR SHAPED  
CONDUCTOR



ARMOURED



RODENT PROOF

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7367206	2x1,5	8,6	13,2	340	135	26	26	24,83	0,387
7367207	2x2,5	9,4	14,0	385	140	36	34	15,25	0,360
7367208	2x4	10,3	14,9	450	150	49	44	9,532	0,337
7367209	2x6	11,5	16,1	535	165	63	56	6,403	0,316
7367210	2x10	13,2	18,0	665	180	86	73	3,845	0,296
7367211	2x16	15,0	20,5	945	205	115	95	2,453	0,282
7367212	2x25	18,1	23,8	1.300	240	149	121	1,589	0,279
7367213	2x35	20,6	27,2	1.775	275	185	146	1,171	0,269
7368214	2x50*	19,4	26,2	1.830	265	225	173	0,893	0,274
7368215	2x70*	22,1	29,1	2.350	295	289	213	0,647	0,265
7368216	2x95*	25,2	33,2	3.220	335	352	252	0,488	0,252
7368217	2x120*	27,6	35,8	3.825	360	410	287	0,406	0,249
7368218	2x150*	30,7	39,1	4.560	395	473	324	0,346	0,247
7368219	2x185*	33,8	43,6	5.800	440	542	363	0,296	0,246
7368220	2x240*	37,7	47,7	7.305	480	641	419	0,245	0,242
7367306	3G1,5	9,2	13,6	365	140	26	26	24,83	0,387
7367307	3G2,5	10,0	14,6	430	150	36	34	15,25	0,360
7367308	3G4	11,0	15,6	510	160	49	44	9,532	0,337
7367309	3G6	12,3	16,9	610	170	63	56	6,403	0,316
7367310	3G10	14,2	19,7	875	200	86	73	3,845	0,296
7367311	3G16	16,1	21,8	1.125	220	115	95	2,453	0,282
7367312	3x25	19,7	26,3	1.735	265	127	101	1,376	0,280
7367313	3x35	22,1	28,9	2.150	290	158	122	1,014	0,269
7368314	3x50*	23,9	30,7	2.515	310	192	144	0,773	0,274
7368315	3x70*	27,5	34,5	3.280	345	246	178	0,560	0,265
7368316	3x95*	31,1	39,3	4.450	395	298	211	0,423	0,252
7368317	3x120*	34,2	42,6	5.365	430	346	240	0,352	0,249
7368318	3x150*	38,4	48,0	6.840	480	395	271	0,300	0,247
7368319	3x185*	41,9	51,7	8.130	520	450	304	0,256	0,246
7368320	3x240*	46,7	56,9	10.255	570	538	351	0,212	0,242
7368321	3x300*	52,0	62,4	12.535	625	-	396	0,184	0,238
7368322	3x400*	58,1	68,9	15.690	690	-	-	0,160	0,236

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
7367406	4G1,5	10,1	14,5	410	145	23	22	21,51	0,387
7367407	4G2,5	11,0	15,6	490	160	31	29	13,21	0,360
7367408	4G4	12,2	16,8	585	170	42	37	8,255	0,337
7367409	4G6	13,6	19,1	820	195	54	46	5,545	0,316
7367410	4G10	15,7	21,2	1.030	215	75	61	3,330	0,296
7367411	4G16	18,2	23,9	1.370	240	100	79	2,123	0,280
7367412	4x25	21,9	28,5	2.075	285	127	101	1,376	0,280
7367413	4x35	24,5	31,3	2.595	315	158	122	1,014	0,269
7368414	4x50*	27,0	34,0	3.135	340	192	144	0,773	0,274
7368415	4x70*	31,3	39,5	4.430	395	246	178	0,560	0,265
7368416	4x95*	35,3	43,7	5.610	440	298	211	0,423	0,252
7368417	4x120*	39,2	48,8	7.245	490	346	240	0,352	0,249
7368418	4x150*	43,6	53,4	8.630	535	395	271	0,300	0,247
7368419	4x185*	47,5	57,4	10.265	575	450	304	0,256	0,246
7368420	4x240*	53,4	63,5	13.075	635	538	351	0,212	0,242
7368421	4x300*	59,2	69,8	15.995	700	-	396	0,184	0,238
7368422	4x400*	66,7	79,2	21.135	795	-	-	0,160	0,236
7367507	5G2,5	12,2	16,8	560	170	31	29	13,21	0,360
7367508	5G4	13,5	18,3	695	185	42	37	8,255	0,337
7367509	5G6	15,1	20,6	950	210	54	46	5,545	0,316
7367510	5G10	17,4	23,1	1.215	235	75	61	3,330	0,296
7367511	5G16	20,7	27,3	1.810	275	100	79	2,123	0,280
7367513	5G35	27,3	34,3	3.125	345	127	101	1,014	0,269

Five cores cables are not included in LPCB & BASEC approval.

\* Shaped stranded conductors

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# GENFIRE

## RZ1F3Z1-K Mica

### Armoured, fire resistant

#### APPLICATIONS:

Essential safety circuits associated with fire fighting equipment, emergency lighting and particularly for power supplies to building equipment used in safety systems. With special fire performance such as fire resistance, fire retardancy, halogen-free and low emission of smoke and fumes.

Maximum rating temperature: 90 °C  
 Minimum working temperature: -40 °C

#### CONSTRUCTION:

UNE 21123-4 & UNE 211025

##### 1. CONDUCTOR

Class 5 (-K) flexible copper conductor to IEC 60228.  
 Sector-shaped for 50 mm<sup>2</sup>  
 and higher cross-sections (Sectorflex® solution).

##### 2. PRIMARY INSULATION

Mineral ceramic fire resistant tape (Mica).

##### 3. SECONDARY INSULATION

Cross-linked polyethylene – XLPE- (R), type XLPE to IEC 60502-1.

##### 4. BEDDING

Halogen free thermoplastic compound (Z1).

##### 5. ARMOUR:

Corrugated tinned steel tape for multi core cables (F3) or aluminium for single core cables (FA3).

##### 6. SHEATH:

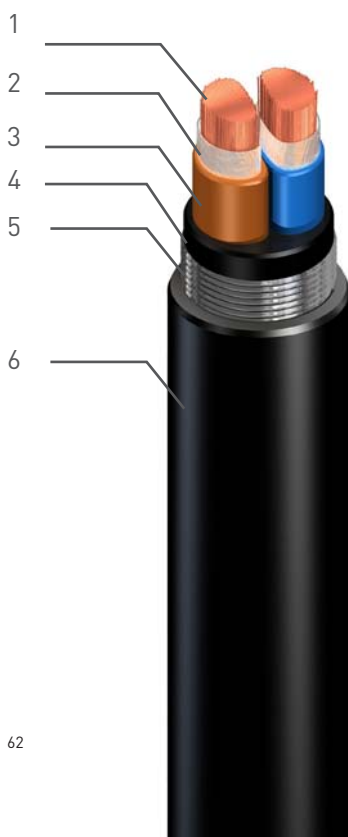
Halogen free thermoplastic polyolefin (Z1), type ST8 to IEC 60502-1.

#### APPROVALS:

BS 6387 cat CWZ

#### RATED VOLTAGE:

0.6/1 kV



**PERFORMANCE STANDARDS:**



FIRE RESISTANT  
IEC 60331  
BS 6387  
CATEGORY CWZ  
EN 50200 PH 120



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX



LOW TEMP.  
-40°C



ARMOURED



RODENT PROOF



WATER-TIGHT

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
7267114	1x50	15,4	22,4	905	225	207	144	0,806	0,379
7267115	1x70	17,5	23,3	1.080	235	268	178	0,594	0,347
7267116	1x95	19,1	24,8	1.310	250	328	211	0,473	0,333
7267117	1x120	21,1	26,7	1.575	270	382	240	0,389	0,319
7267118	1x150	22,9	28,5	1.870	285	441	271	0,330	0,313
7267119	1x185	24,8	30,4	2.205	305	506	304	0,288	0,308
7267120	1x240	27,9	33,5	2.795	335	599	351	0,238	0,295
7267121	1x300	31,3	36,9	3.435	370	-	396	0,206	0,285
7267122	1x400	35,7	41,3	4.530	415	-	-	0,176	0,275
7267123	1x500	39,8	45,4	5.650	455	-	-	0,155	0,268
7267124	1x630	44,0	49,6	7.235	500	-	-	0,136	0,263





**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
7267206	2x1,5	9,1	14,7	305	150	26	26	27,28	0,373
7267207	2x2,5	10,0	15,6	350	160	36	34	16,41	0,344
7267208	2x4	11,0	16,6	405	170	49	44	10,22	0,319
7267209	2x6	12,1	17,7	480	180	63	56	6,846	0,300
7267210	2x10	14,0	19,6	620	200	86	73	4,002	0,279
7267211	2x16	16,0	21,6	790	220	115	95	2,568	0,265
7267212	2x25	19,3	24,9	1.095	250	149	121	1,690	0,262
7267213	2x35	21,5	27,1	1.365	275	185	146	1,225	0,253
7267214	2x50	23,1	30,1	1.775	305	225	173	0,882	0,252
7267215	2x70	26,8	33,8	2.330	450	289	213	0,648	0,246
7267216	2x95	29,4	36,4	2.850	450	352	252	0,510	0,240
7267217	2x120	32,8	39,8	3.490	450	410	287	0,418	0,237
7267218	2x150	34,8	41,8	4.060	450	473	324	0,352	0,237
7267219	2x185	37,9	44,9	4.815	450	542	363	0,306	0,238
7267220	2x240	42,6	49,8	6.130	495	641	419	0,252	0,234

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
7267306	3G1,5	9,7	15,3	330	155	26	26	27,28	0,373
7267307	3G2,5	10,6	16,2	385	165	36	34	16,41	0,344
7267308	3G4	11,7	17,3	460	175	49	44	10,22	0,319
7267309	3G6	12,9	18,5	540	185	63	56	6,846	0,300
7267310	3G10	15,0	20,6	725	210	86	73	4,002	0,279
7267311	3G16	17,1	22,7	945	230	115	95	2,568	0,265
7267312	3x25	20,7	26,3	1.325	265	127	101	1,464	0,262
7267313	3x35	23,1	28,7	1.675	290	158	122	1,061	0,253
7267314	3x50*	27,0	34,0	2.270	340	192	144	0,764	0,252
7267315	3x70*	31,1	38,1	2.985	385	246	178	0,561	0,246
7267316	3x95*	34,2	41,2	3.685	415	298	211	0,442	0,240
7267317	3x120*	37,9	44,9	4.510	450	346	240	0,362	0,237
7267318	3x150*	40,5	47,5	5.300	475	395	271	0,305	0,237
7267319	3x185*	44,2	51,4	6.335	515	450	304	0,265	0,238
7267320	3x240*	50,5	57,9	8.215	580	538	351	0,218	0,234

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C ** (A)	Maximum current rating Buried 20°C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7267406	4G1,5	10,6	16,2	370	165	23	22	23,62	0,373
7267407	4G2,5	11,6	17,2	435	175	31	29	14,21	0,344
7267408	4G4	12,9	18,5	520	185	42	37	8,850	0,319
7267409	4G6	14,2	19,8	630	200	54	46	5,929	0,300
7267410	4G10	16,5	22,1	860	225	75	61	3,466	0,279
7267411	4G16	19,0	24,6	1.140	250	100	79	2,224	0,265
7267412	4x25	23,0	28,6	1.615	290	127	101	1,464	0,262
7267413	4x35	25,6	31,2	2.070	315	158	122	1,061	0,253
7267414	4x50*	-	34,6	2.580	350	192	144	0,764	0,252
7267415	4x70*	34,2	41,2	3.810	415	246	187	0,561	0,246
7267416	4x95*	37,5	44,5	4.740	445	298	211	0,442	0,240
7267417	4x120*	41,8	48,8	5.845	490	346	240	0,362	0,237
7267418	4x150*	44,7	51,9	6.940	520	395	271	0,305	0,237
7267506	5G1,5	12,1	17,7	440	180	23	22	23,62	0,373
7267507	5G2,5	13,2	18,8	520	190	31	29	14,21	0,344
7267508	5G4	14,7	20,3	635	205	42	37	8,850	0,319
7267509	5G6	16,2	21,8	775	220	54	46	5,929	0,300
7267510	5G10	18,7	24,3	1.045	245	75	61	3,466	0,279
7267511	5G16	21,5	27,1	1.400	275	100	79	2,224	0,265
7267512	5G25	26,0	31,6	1.985	320	127	101	1,464	0,262
7267513	5G35	28,9	34,5	2.555	345	158	122	1,061	0,253
7267514	5G50	35,1	42,1	3.750	425	192	144	0,763	0,249
7267515	5G70	40,8	47,8	5.010	480	246	187	0,560	0,243
7267516	5G95	45,0	52,0	6.260	520	298	211	0,442	0,238
7267517	5G120	50,6	57,6	7.805	580	346	240	0,361	0,235

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# EXZHELLENT XXI

## RZ1MZ1

Armoured, low fire hazard

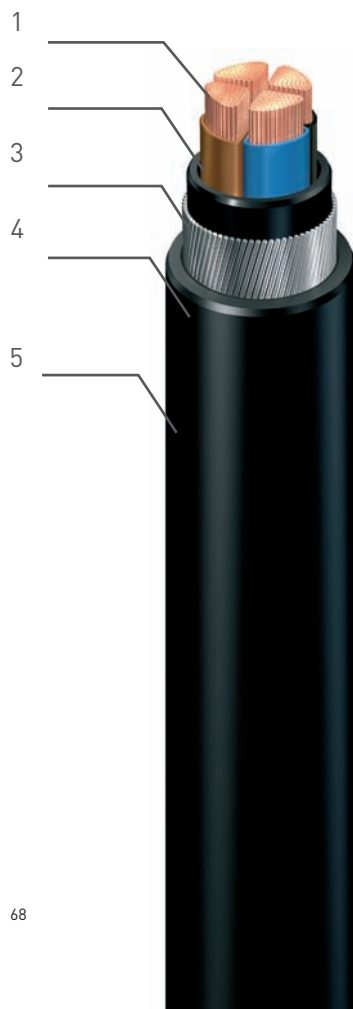
### APPLICATIONS:

Required in areas with risk of fire or explosion that are also public places such as covered and locked car parks. Recommended in all installations requiring mechanical cable protection or special tensile strength during laying and where there is a risk of fire with the possibility of damage or injury.

Maximum rating temperature: 90 °C.  
Minimum working temperature: -40 °C.

### CONSTRUCTION:

Class 2



### BS 6724

#### 1. CONDUCTOR

Class 2 stranded copper conductors to BS-EN 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections.

#### 2. INSULATION

Cross-linked polyethylene – XLPE- (R), type GP8 to BS 7655-13.

#### 3. BEDDING

Halogen free thermoplastic polyolefin (Z1).

#### 4. ARMOUR:

Galvanised steel wires (M) for multicore cables or aluminium wires (MA) for single core cables.

#### 5. SHEATH:

Halogen-free thermoplastic polyolefin (Z1), type LT51 to BS 7655-6.1.

### APPROVALS:



### RATED VOLTAGE:

0.6/1 kV

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20 °C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7364114	1x50	11,5	17,7	695	180	207	144	0,804	0,364
7364115	1x70	13,3	19,5	915	195	268	178	0,595	0,342
7364116	1x95	14,9	21,3	1.193	215	328	211	0,474	0,323
7364117	1x120	16,8	23,2	1.460	235	382	240	0,390	0,313
7364118	1x150	19,0	25,6	1.780	400	441	271	0,332	0,312
7364119	1x185	20,8	27,6	2.170	280	506	304	0,289	0,305
7364120	1x240	23,2	30,3	2.740	300	599	351	0,239	0,295
7364121	1x300	25,8	32,8	3.385	330	-	396	0,207	0,284
7364122	1x400	29,3	37,3	4.365	375	-	-	0,177	0,284

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY  
(class 2 flexible option)



SECTOR SHAPED  
CONDUCTOR



ARMOURED



RODENT PROOF

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 20 °C *** (A)	Voltage drop cos phi= 0,8 (V/A·km)	Inductance (mH/km)
7364206	2x1,5	6,9	11,3	240	115	26	26	23,61	0,330
7364207	2x2,5	8,1	12,7	300	130	36	34	14,20	0,322
7364208	2x4	9,0	13,4	365	135	49	44	8,839	0,304
7364209	2x6	10,2	14,6	440	150	63	56	5,919	0,287
7364210	2x10	11,9	16,3	570	165	86	73	3,458	0,272
7364211	2x16	13,7	18,8	830	190	115	95	2,218	0,259
7364212	2x25	16,7	22,4	1.195	225	149	121	1,458	0,262
7364213	2x35	18,8	25,4	1.600	255	185	144	1,057	0,254
7365214	2x50*	17,5	24,3	1.690	245	225	173	0,759	0,250
7365215	2x70*	20,1	27,1	2.205	275	289	213	0,556	0,244
7365216	2x95*	23,1	31,1	3.000	315	352	252	0,438	0,234
7365217	2x120*	25,9	34,1	3.655	345	410	287	0,358	0,233
7365218	2x150*	29,0	37,4	4.350	375	473	324	0,302	0,233
7365219	2x185*	31,8	41,6	5.570	420	542	363	0,262	0,233
7365220	2x240*	35,5	45,5	6.880	455	641	419	0,215	0,230
7365221	2x300*	39,7	49,9	8.415	500	-	-	0,186	0,227
7365222	2x400*	44,5	55,1	10.545	555	-	-	0,157	0,227
7364306	3x1,5	7,3	11,7	260	20	22	26	23,61	0,330
7364307	3x2,5	8,6	13	330	130	29	34	14,20	0,322
7364308	3x4	9,6	14	405	140	40	44	8,839	0,304
7364309	3x6	10,8	15,3	495	155	51	56	5,919	0,287
7364310	3x10	12,7	17,8	755	180	72	73	3,458	0,272
7364311	3x16	14,7	19,8	1.000	200	96	95	2,218	0,259
7364312	3x25	18,3	24,9	1.585	250	121	101	1,458	0,262
7364313	3x35	19,0	25,8	1.835	260	151	122	1,057	0,254
7365314	3x50*	21,5	28,3	2.310	285	184	144	0,759	0,250
7365315	3x70*	24,8	31,8	3.050	320	235	178	0,556	0,244
7365316	3x95*	28,4	36,6	4.185	370	285	211	0,438	0,234
7365317	3x120*	32,0	40,4	5.115	405	331	240	0,358	0,233
7365318	3x150*	36,3	45,9	6.525	460	388	271	0,302	0,233
7365319	3x185*	39,4	49,2	7.795	495	430	304	0,262	0,233
7365320	3x240*	44,0	54,2	9.720	545	515	351	0,215	0,230
7365321	3x300*	49,3	59,7	11.975	600	592	396	0,186	0,227
7365322	3x400*	55,4	66,2	15.035	665	710	-	0,157	0,227

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30 °C** (A)	Maximum current rating Buried 20 °C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7364406	4x1,5	8,0	12,4	300	125	22	22	23,61	0,330
7364407	4x2,5	9,4	13,8	380	140	29	29	14,20	0,322
7364408	4x4	10,6	15	470	150	40	37	8,839	0,304
7364409	4x6	12,0	17,1	660	175	51	46	5,919	0,287
7364410	4x10	14,1	19,2	915	195	72	61	3,458	0,272
7364411	4x16	16,2	21,3	1.215	215	96	79	2,218	0,259
7364412	4x25	20,3	26,9	1.900	270	121	101	1,458	0,262
7364413	4x35	22,8	29,6	2.415	300	151	122	1,057	0,254
7365414	4x50*	24,2	31,2	2.895	315	184	144	0,759	0,250
7365415	4x70*	28,5	36,7	4.125	370	235	178	0,556	0,244
7365416	4x95*	32,1	40,5	5.295	405	285	211	0,438	0,234
7365417	4x120*	36,6	46,2	6.895	465	331	240	0,358	0,233
7365418	4x150*	41,1	50,9	8.255	510	388	271	0,302	0,233
7365419	4x185*	44,6	54,8	9.910	550	430	304	0,262	0,233
7365420	4x240*	50,3	60,7	12.505	610	515	351	0,215	0,230
7365421	4x300*	55,9	66,7	15.455	670	592	396	0,186	0,227
7365422	4x400*	63,3	76	20.430	760	710	-	0,157	0,227
7364506	5x1,5	8,8	13,2	340	135	22	22	23,61	0,330
7364507	5x2,5	10,4	14,8	440	150	29	29	14,20	0,322
7364508	5x4	11,7	16,1	550	165	40	37	8,839	0,304
7364509	5x6	13,2	18,3	775	185	51	46	5,919	0,287
7364510	5x10	15,6	20,7	1.065	210	72	61	3,458	0,272
7364511	5x16	18,5	24,3	1.575	245	96	79	2,218	0,259
7364512	5x25	22,5	29,3	2.270	295	121	101	1,458	0,262
7364513	5x35	25,4	32,4	2.890	325	151	122	1,057	0,254
7364514	5x50	29,3	37,3	3.970	375	184	144	0,759	0,250
7364515	5x70	34,1	42,5	5.290	425	235	178	0,556	0,244

Five cores cables are not included in BASEC approval.

\* Shaped stranded conductors

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# EXZHELLENT XXI

RZ1F3Z1- K

Armoured, low fire hazard

**exZellent**

RZ1F3Z1-K

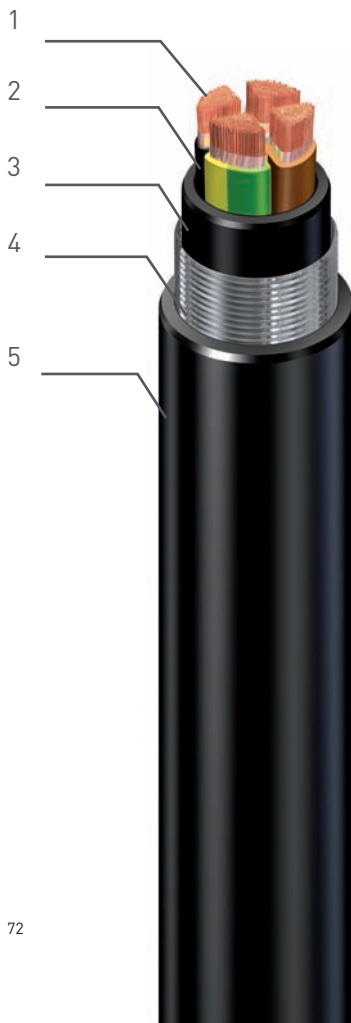
## APPLICATIONS:

Low voltage armoured power cables specially designed for power electric circuits in outdoors railway infrastructure. With special fire performance such as fire retardancy, halogen-free and low emission of smoke and fumes. The cables are armoured with special corrugated steel armour, which provides the cable mechanical safety watertightness and rodent-proofness, and better handleability.

Maximum rating temperature: 90 °C.

Minimum working temperature: -40 °C.

## CONSTRUCTION:



### UNE 21123-4

#### 1. CONDUCTOR

Class 5 (-K) flexible copper conductors to IEC 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections (Sectorflex<sup>®</sup> solution).

#### 2. INSULATION

Cross-linked polyethylene – XLPE- ( R ) to IEC 60502-1.

#### 3. BEDDING

Halogen free thermoplastic compound (Z1).

#### 4. ARMOUR:

Corrugated tinned steel tape for multi core cables (F3) or aluminium for single core cables (FA3).

#### 5. SHEATH:

Halogen-free thermoplastic compound (Z1), type ST8 to IEC 60502-1.

## RATED VOLTAGE:

0.6/1 kV



**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (Ohm/km)	Maximum current rating Buried 25°C *** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7265110	1x10	9,8	15,4	355	155	80	77	3,525	0,462
7265111	1x16	9,8	15,4	390	155	107	100	2,274	0,416
7265112	1x25	10,4	16,0	465	160	135	128	1,502	0,380
7265113	1x35	11,5	17,1	570	175	169	154	1,096	0,360
7265114	1x50	14,7	21,7	885	220	207	183	0,804	0,373
7265115	1x70	16,8	23,8	1.125	240	268	224	0,595	0,352
7265116	1x95	18,4	25,4	1.365	255	328	265	0,474	0,337
7265117	1x120	20,4	27,4	1.645	275	382	302	0,390	0,324
7265118	1x150	22,2	29,2	1.940	295	441	342	0,332	0,318
7265119	1x185	24,1	31,1	2.280	315	506	383	0,289	0,312
7265120	1x240	27,2	34,2	2.895	345	599	442	0,239	0,299
7265121	1x300	30,6	37,6	3.555	380	-	500	0,207	0,288
7265122	1x400	35,0	42,0	4.675	420	-	570	0,177	0,278

**PERFORMANCE STANDARDS:**



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



HALOGEN-FREE  
IEC 60754-1



LOW ACIDITY AND  
CORROSIVITY  
IEC 60754-2



LOW SMOKE  
EMISSION  
IEC 61034-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX



LOW TEMP.  
-40°C



ARMORED



RODENT PROOF



WATER-TIGHT

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 25°C*** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
7265206	2x1,5	9,0	14,6	305	150	26	27	23,61	0,331
7265207	2x2,5	9,2	14,8	330	150	36	36	14,20	0,307
7265208	2x4	10,1	15,7	380	160	49	46	8,839	0,287
7265209	2x6	11,3	16,9	440	170	63	58	5,919	0,272
7265210	2x10	13,1	18,7	590	190	86	77	3,458	0,256
7265211	2x16	15,1	20,7	760	210	115	100	2,218	0,245
7265212	2x25	18,4	24,0	1.045	240	149	128	1,458	0,246
7265213	2x35	20,6	26,2	1.320	265	185	154	1,057	0,239
7265214	2x50*	21,7	29,5	1.705	295	225	183	0,759	0,236
7265215	2x70*	25,1	32,9	2.235	330	289	224	0,556	0,232
7265216	2x95*	27,7	35,7	2.760	360	352	265	0,438	0,228
7265217	2x120*	31,1	39,2	3.385	395	410	302	0,358	0,226
7265218	2x150*	33,1	41,3	3.950	415	473	342	0,302	0,228
7265219	2x185*	36,2	44,5	4.700	445	542	383	0,262	0,229
7265220	2x240*	41,1	49,8	6.045	500	641	442	0,215	0,226
7265221	2x300*	47,4	56,6	7.625	570	-	500	0,186	0,223
7265306	3x1,5	9,2	14,8	330	150	22	23	23,61	0,331
7265307	3x2,5	9,7	15,3	355	155	29	30	14,20	0,307
7265308	3x4	10,7	16,3	415	165	40	38	8,839	0,287
7265309	3x6	11,9	17,5	520	175	51	48	5,919	0,272
7265310	3x10	14,0	19,6	685	200	72	64	3,458	0,256
7265311	3x16	16,1	21,7	915	220	96	82	2,218	0,245
7265312	3x25	19,7	25,3	1.275	255	121	106	1,458	0,246
7265313	3x35	22,1	27,7	1.635	280	151	129	1,057	0,239
7265314	3x50*	25,3	33,3	2.195	335	184	152	0,759	0,236
7265315	3x70*	29,4	36,4	2.870	365	235	187	0,556	0,232
7265316	3x95*	32,5	39,5	3.565	395	285	222	0,438	0,228
7265317	3x120*	36,5	43,5	4.400	435	331	253	0,358	0,226
7265318	3x150*	39,0	46,0	5.185	460	388	286	0,302	0,228
7265319	3x185*	42,8	49,8	6.185	500	430	320	0,262	0,229
7265320	3x240*	48,9	56,3	8.050	565	515	370	0,215	0,226
7265321	3x300*	55,7	63,5	10.110	635	592	418	0,186	0,223

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30°C** (A)	Maximum current rating Buried 25°C*** (A)	Voltage drop cos phi= 0,8 (V/A.km)	Inductance (mH/km)
7265406	4x1,5	9,4	15,0	335	150	22	23	23,61	0,331
7265407	4x2,5	10,4	16,0	395	150	29	30	14,20	0,307
7265408	4x4	11,7	17,3	485	160	40	38	8,839	0,287
7265409	4x6	13,0	18,6	585	170	51	48	5,919	0,272
7265410	4x10	15,3	20,9	810	190	72	64	3,458	0,256
7265411	4x16	17,8	23,4	1.090	210	96	82	2,218	0,245
7265412	4x25	21,8	27,4	1.555	240	121	106	1,458	0,246
7265413	4x35	24,4	30,0	2.000	265	151	129	1,057	0,239
7265414	4x50*	27,7	34,7	2.740	295	184	152	0,759	0,236
7265415	4x70*	32,3	39,3	3.600	330	235	187	0,556	0,232
7265416	4x95*	35,7	42,7	4.575	360	285	222	0,438	0,228
7265417	4x120*	40,1	47,1	5.690	395	331	253	0,358	0,226
7265418	4x150*	43,1	50,1	6.755	415	388	286	0,302	0,228
7265419	4x185*	47,2	54,6	8.240	445	430	320	0,262	0,229
7265420	4x240*	54,2	62,0	10.775	500	515	370	0,215	0,226
7265506	5x1,5	10,3	15,9	375	160	22	23	23,61	0,331
7265507	5x2,5	11,4	17,0	455	170	29	30	14,20	0,307
7265508	5x4	12,9	18,5	560	185	40	38	8,839	0,287
7265509	5x6	14,4	20,0	690	200	51	48	5,919	0,272
7265510	5x10	17,0	22,6	960	230	72	64	3,458	0,256
7265511	5x16	19,7	25,3	1.310	255	96	82	2,218	0,245
7265512	5x25	24,2	29,8	1.870	300	121	106	1,458	0,246
7265513	5x35	27,2	33,0	2.445	330	151	129	1,057	0,239
7265514	5x50	33,1	40,1	3.580	405	184	152	0,759	0,236
7265515	5x70	38,8	45,8	4.830	460	235	187	0,556	0,232
7265516	5x95	43,0	50,0	6.065	500	-	222	0,438	0,228
7265517	5x120	48,6	55,8	7.605	560	-	253	0,358	0,226
7265518	5x150	52,5	59,9	9.110	600	-	286	0,302	0,228

\* Shaped flexible conductor SECTORFLEX

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2

# ARMIGRON

## RMV / RMAV

### Armoured, PVC

#### APPLICATIONS:

Installations in hazardous areas, especially with risk of fire and/or explosion. Extraordinary mechanical resistance in very heavy duty installations.

Maximum rating temperature: +90 °C  
 Minimum working temperature: -15 °C

#### CONSTRUCTION:

IEC 60502-1 & BS 5467.

##### 1. CONDUCTOR:

Class 2 (-R) stranded plain copper conductors to IEC 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections.

##### 2. INSULATION:

Crosslinked polyethylene-XLPE- (R), type GP8 to BS 7655-1-3 and type XLPE to IEC 6052-1.

##### 3. BEDDING:

Polyvinyl Chloride -PVC-.

##### 4. ARMOUR:

Galvanised steel wires, (M) for multicore cables and aluminium (MA) for single-core cables.

##### 5. SHEATH:

Polyvinyl Chloride -PVC- (V), type 9 to BS 7655-4-2 and type ST2 to IEC 60502-1.



#### APPROVALS:



#### RATED VOLTAGE:

0.6/1 kV

**PHYSICAL AND ELECTRICAL CHARACTERISTICS:**

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30 °C** (A)	Maximum current rating Buried 20 °C *** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
1859114	1x50	11,6	16,5	675	245	207	144	0,797	0,347
1859115	1x70	13,3	18,9	925	285	268	178	0,583	0,336
1859116	1x95	15,1	20,7	1.200	320	328	211	0,444	0,315
1859117	1x120	16,7	22,4	1.460	355	382	240	0,37	0,307
1859118	1x150	18,8	25,2	1.825	395	441	271	0,32	0,311
1859119	1x185	20,9	27,4	2.240	435	506	304	0,274	0,303
1859120	1x240	23,3	29,9	2.820	480	599	351	0,229	0,293
1859121	1x300	25,9	32,7	3.465	530	-	396	0,2	0,286
1859122	1x400	29,4	37,1	4.455	605	-	-	0,176	0,286
1859206	2x1,5	6,9	11,8	280	120	26	26	21,49	0,33
1859207	2x2,5	8,1	13	350	130	36	34	13,2	0,322
1859208	2x4	9,0	13,9	415	140	49	44	8,244	0,304
1859209	2x6	10,2	15,1	500	155	63	56	5,536	0,287
1859210	2x10	11,9	16,8	655	170	86	73	3,322	0,272
1859211	2x16	14,0	19,6	960	200	115	95	2,116	0,259
1859212	2x25	16,8	22,5	1.290	225	149	121	1,37	0,262
1859213	2x35	19,3	25,8	1.775	260	185	146	1,009	0,254
1859214	2x50*	17,5	23,9	1.720	240	225	173	0,766	0,25
1859215	2x70*	20,2	26,9	2.245	270	289	213	0,553	0,244
1859216	2x95*	23,3	30,1	2.885	305	352	252	0,417	0,234
1859306	3x1,5	7,3	12,3	310	125	26	26	21,49	0,33
1859307	3x2,5	8,6	13,5	385	135	36	34	13,2	0,322
1859308	3x4	9,6	14,5	465	145	49	44	8,244	0,304
1859309	3x6	10,9	15,8	570	160	63	56	5,536	0,287
1859310	3x10	12,7	18,4	850	185	86	73	3,322	0,272

**PERFORMANCE STANDARDS:**



FLAME RETARDANT  
IEC 60332-1-2



ARMOURED



SECTOR SHAPED  
CONDUCTOR

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm <sup>2</sup> )	Diameter under armour (mm)	Overall diameter (mm)	Weight (kg/km)	Minimum bending radius (mm)	Maximum current rating Air 30 °C** (A)	Maximum current rating Buried 20 °C*** (A)	Voltage drop cos phi= 0,8 (V/A-km)	Inductance (mH/km)
1859311	3x16	15,0	20,6	1.115	210	115	95	2,116	0,259
1859312	3x25	18,4	24,8	1.695	250	127	101	1,37	0,262
1859313	3x35	20,7	27,2	2.125	275	158	122	1,009	0,254
1859314	3x50	21,5	28	2.355	280	192	144	0,766	0,25
1859315	3x70	24,9	31,7	3.105	320	246	178	0,553	0,244
1859316	3x95	28,7	36,7	4.285	370	298	211	0,417	0,234
1859317	3x120	31,8	40	5.175	400	346	240	0,346	0,233
1859318	3x150	35,5	45	6.590	450	395	271	0,295	0,234
1859319	3x185	39,5	49,4	7.945	495	450	304	0,251	0,233
1859320	3x240	44,1	54,3	9.935	545	538	351	0,208	0,23
1859321	3x300	49,4	60	12.055	600	-	-	0,18	0,227
1859322	3x400	55,5	66,6	15.330	670	-	22	0,157	0,227
1859406	4x1,5	8,0	13,1	350	135	23	29	21,49	0,33
1859407	4x2,5	9,4	14,5	440	145	31	37	13,2	0,322
1859408	4x4	10,6	15,7	535	160	42	46	8,244	0,304
1859409	4x6	12,0	17,8	745	180	54	61	5,536	0,287
1859410	4x10	14,1	19,9	995	200	75	79	3,322	0,272
1859411	4x16	16,6	22,3	1.320	225	100	101	2,116	0,259
1859412	4x25	20,4	26,9	2.035	270	127	122	1,009	0,262
1859413	4x35	22,9	29,5	2.565	295	158	144	1,345	0,254
1859414	4x50*	24,3	31,1	2.955	315	192	187	0,766	0,25
1859415	4x70*	28,6	36,5	4.255	365	246	211	0,553	0,244
1859416	4x95*	32,5	40,8	5.450	410	298	240	0,417	0,234
1859417	4x120*	36,4	46	7.045	460	346	271	0,346	0,233
1859418	4x150*	40,2	50,1	8.435	505	395	304	0,295	0,234
1859419	4x185*	44,8	55	10.185	550	450	351	0,251	0,233
1859420	4x240*	50,5	61	12.870	610	538	396	0,208	0,23
1859421	4x300*	56,1	67,2	15.640	675	-	-	0,18	0,227
1859422	4x400*	63,4	76,5	20.900	765	-	-	0,157	0,227

Cable in drums.

\* Shaped stranded conductors

\*\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, three loaded conductors for single-core cables and method of installation E for multicore cables.

\*\*\* Current ratings according to IEC 60364-5-52 table B.52-2