

catalog | **I-VOLT**<sup>®</sup>  
**low voltage Electrical Cables**  
**0.6/1 kV | XLPE Insulated**  
// Copper Conductor



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

**// Standards**

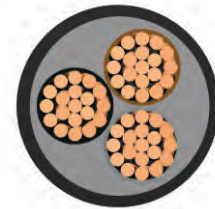
IEC 60502 | VDE 0276

**// Code**

YXV-U | YXV-R | CU/XLPE/PVC | N2XY

U: Solid Conductor

R: Stranded conductor

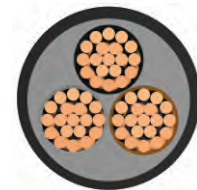


Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
12.1000	30	-	-	24	3x1.5	11.5	180	1000
7.4100	40	-	-	32	3x2.5	12.5	230	1000
4.6100	52	-	-	42	3x4	13.5	300	1000
3.0800	64	-	-	53	3x6	14.5	370	1000
1.8300	86	-	-	73	3x10	17.0	550	1000
1.1500	111	-	-	96	3x16	19.0	700	1000
0.7270	143	-	-	130	3x25	22.5	1150	1000
0.5240	173	-	-	160	3x35	24.5	1500	1000
0.3870	205	-	-	195	3x50	27.5	1950	1000
0.2680	252	-	-	247	3x70	32.0	2750	1000
0.1930	303	-	-	30	3x95	36.0	3600	1000
0.1530	346	-	-	355	3x120	40.0	4500	1000
0.1240	390	-	-	407	3x150	44.5	5600	500
0.0991	441	-	-	469	3x185	49.0	6950	500
0.0754	511	-	-	551	3x240	56.0	9000	500
0.0601	580	-	-	638	3x300	63.0	11200	250
0.0470	663	-	-	746	3x400	72.0	14750	250
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear | ○○○  
Triangular | ○○○



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

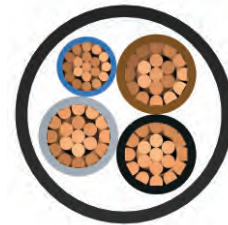
**// Standards**



IEC 60502 | VDE 0276

**// Code**

YXV-U | YXV-R | CU/XLPE/PVC | N2XY



U: Solid Conductor  
R: Stranded conductor



Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct  @ 20 °C	in Air  @ 30 °C				
12.1000	30	-	-	24	4x1.5	12.0	200	1000
7.4100	40	-	-	32	4x2.5	13.0	250	1000
4.6100	52	-	-	42	4x4	4.5	350	1000
3.0800	64	-	-	53	4x6	15.5	450	1000
1.8300	86	-	-	73	4x10	18.5	700	1000
1.1500	111	-	-	96	4x16	20.5	950	1000
0.7270	143	-	-	130	4x25	24.5	1400	1000
0.5240	173	-	-	160	4x35	27.0	1850	1000
0.3870	205	-	-	195	4x50	30.5	2500	1000
0.2680	252	-	-	247	4x70	35.5	3500	1000
0.1930	303	-	-	305	4x95	39.5	4650	1000
0.1530	346	-	-	355	4x120	44.5	5900	500
0.1240	390	-	-	407	4x150	49.0	7200	500
0.0991	441	-	-	469	4x185	54.5	8950	500
0.0754	511	-	-	551	4x240	62.0	11600	250
0.0601	580	-	-	638	4x300	70.0	14400	250
0.0470	663	-	-	746	4x400	80.0	19000	250
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

- Linear | 
- Triangular | 



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

**// Construction**

1. Stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

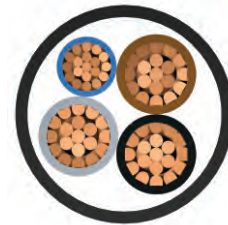
**// Standards**

IEC 60502 | VDE 0276

**// Code**

YXV-U | YXV-R | XLPE/PVC | N2XY

U: Solid Conductor  
R: Stranded conductor



Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Air @ 20 °C	in Ground @ 30 °C				
1.1500	111	-	-	96	3x16+10	20.0	850	1000
0.7270	143	-	-	130	3x25+16	23.5	1300	1000
0.5240	173	-	-	160	3x35+16	25.5	1650	1000
0.3870	205	-	-	195	3x50+25	29.0	2200	1000
0.2680	252	-	-	247	3x70+35	33.5	3100	1000
0.1930	303	-	-	305	3x95+50	37.5	4100	1000
0.1530	346	-	-	355	3x120+70	42.0	5200	500
0.1240	390	-	-	407	3x150+70	45.5	6250	500
0.0991	441	-	-	469	3x185+95	51.0	7800	500
0.0754	511	-	-	551	3x240+120	58.0	10100	500
0.0601	580	-	-	638	3x300+150	65.0	12500	250
0.0470	663	-	-	746	3x400+185	73.5	16300	250
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

- Linear | ○○○
- Triangular | ○○○



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. PVC inner sheath.
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 15x D

D = Cable outer diameter

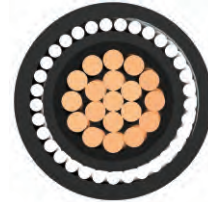
**// Standards**

IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XRY

U: Solid Conductor  
R: Stranded conductor





Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
12.1000	39	32	32	25	1x1.5	10.5	200	1000
7.4100	51	43	42	34	1x2.5	11.0	220	1000
4.6100	66	55	56	44	1x4	11.5	250	1000
3.0800	82	68	71	57	1x6	12.0	280	1000
1.8300	109	90	96	77	1x10	13.0	350	1000
1.1500	139	115	128	102	1x16	14.0	450	1000
0.7270	179	149	173	139	1x25	15.5	550	1000
0.5240	213	178	212	170	1x35	17.5	800	1000
0.3870	251	211	258	208	1x50	19.0	1000	1000
0.2680	307	259	328	265	1x70	20.5	1250	1000
0.1930	366	310	404	326	1x95	23.0	1700	1000
0.1530	416	352	471	381	1x120	25.0	2000	1000
0.1240	465	396	541	438	1x150	26.5	2350	1000
0.0991	526	449	626	507	1x185	28.5	2800	1000
0.0754	610	521	749	606	1x240	31.5	3450	1000
0.0601	689	587	864	697	1x300	36.0	4400	1000
0.0470	788	669	1018	816	1x400	39.5	5500	500
0.0366-	889	748	1173	933	1x500	44.5	6750	500
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear | ○○○  
Triangular | ○○○



**// Application**

Indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distribution and industrial plants where there is risk of mechanical damage.

**// Construction**

1. Stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer sheath.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

**// Standards**

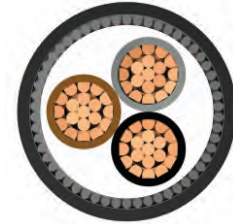
IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XR4Y

U: Solid Conductor

R: Stranded conductor

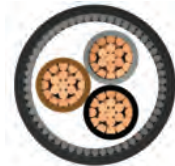


Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
12.1000	30	-	-	24	3x1.5	13.5	330	1000
7.4100	40	-	-	32	3x2.5	14.0	390	1000
4.6100	52	-	-	42	3x4	15.5	470	1000
3.0800	64	-	-	53	3x6	16.5	550	1000
1.8300	86	-	-	73	3x10	20.0	950	1000
1.1500	111	-	-	96	3x16	22.0	1200	1000
0.7270	143	-	-	130	3x25	26.0	1800	1000
0.5240	173	-	-	160	3x35	28.0	2200	1000
0.3870	205	-	-	195	3x50	31.0	2800	1000
0.2680	252	-	-	247	3x70	36.5	4000	1000
0.1930	303	-	-	30	3x95	40.5	5000	250
0.1530	346	-	-	355	3x120	44.5	6050	250
0.1240	390	-	-	407	3x150	50.0	7750	500
0.0991	441	-	-	469	3x185	55.0	9300	500
0.0754	511	-	-	551	3x240	61.5	11650	250
0.0601	580	-	-	638	3x300	69.0	14000	250
0.0470	663	-	-	746	3x400	77.0	18000	250
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear |   
 Triangular |



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer sheath.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

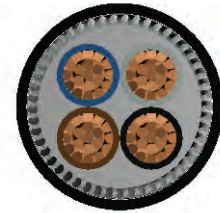
**// Standards**

IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XR4Y

U: Solid Conductor  
R: Stranded conductor

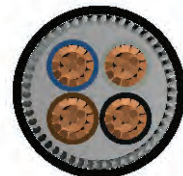


Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
12.1000	30	-	-	24	4x1.5	14.0	380	1000
7.4100	40	-	-	32	4x2.5	15.0	440	1000
4.6100	52	-	-	42	4x4	16.0	550	1000
3.0800	64	-	-	53	4x6	18.5	800	1000
1.8300	86	-	-	73	4x10	21.0	1100	1000
1.1500	111	-	-	96	4x16	24.0	1550	1000
0.7270	143	-	-	130	4x25	28.0	2150	1000
0.5240	173	-	-	160	4x35	30.5	2700	1000
0.3870	205	-	-	195	4x50	34.0	3400	1000
0.2680	252	-	-	247	4x70	40.0	4850	1000
0.1930	303	-	-	305	4x95	44.0	6150	500
0.1530	346	-	-	355	4x120	50.5	8000	500
0.1240	390	-	-	407	4x150	55.0	9600	500
0.0991	441	-	-	469	4x185	60.5	11570	250
0.0754	511	-	-	551	4x240	38.0	14550	250
0.0601	580	-	-	638	4x300	76.0	17750	250
0.0470	663	-	-	746	4x400	87.0	23800	200
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear |   
 Triangular |



**// Application**

These cables have low dielectric loss. Used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter.
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer sheath.

**// Cable Summary**

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12x D

D = Cable outer diameter

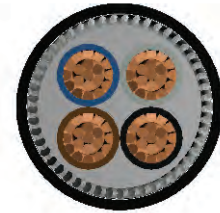
**// Standards**

IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XRY

U: Solid Conductor  
R: Stranded conductor

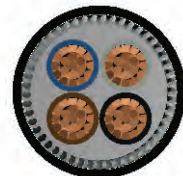


Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Air @ 20 °C	in Ground @ 30 °C				
1.1500	111	-	-	96	3x16+10	23.0	1300	1000
0.7270	143	-	-	130	3x25+16	27.0	2000	1000
0.5240	173	-	-	160	3x35+16	29.0	2350	1000
0.3870	205	-	-	195	3x50+25	32.5	3100	1000
0.2680	252	-	-	247	3x70+35	38.0	4400	1000
0.1930	303	-	-	305	3x95+50	42.0	5500	500
0.1530	346	-	-	355	3x120+70	46.5	6850	500
0.1240	390	-	-	407	3x150+70	51.5	8450	500
0.0991	441	-	-	469	3x185+95	56.5	10300	250
0.0754	511	-	-	551	3x240+120	63.5	12850	250
0.0601	580	-	-	638	3x300+150	70.5	15600	250
0.0470	663	-	-	746	3x400+185	80.0	20750	250
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear |   
 Triangular |



**// Application**

Used as control cable, indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distribution and industrial plants where there is risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 70°C
Max. short circuit temperature	: 160°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12 x D

D = Cable outer diameter

**// Standards**

IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XRY

U: Solid Conductor

R: Stranded conductor



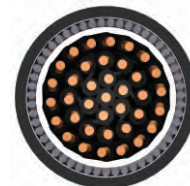


Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
12.100	21.0	-	-	18.0	5x1.5	15.0	420	1000
12.100	19.5	-	-	16.8	6x1.5	15.5	470	1000
12.100	18.0	-	-	15.6	7x1.5	15.5	480	1000
12.100	16.5	-	-	14.4	8x1.5	18.0	670	1000
12.100	15.0	-	-	13.2	10x1.5	19.5	800	1000
12.100	14.3	-	-	12.6	12x1.5	20.0	850	1000
12.100	13.5	-	-	12.0	14x1.5	20.5	900	1000
12.100	12.8	-	-	11.4	16x1.5	21.5	950	1000
12.100	12.0	-	-	10.8	19x1.5	22.0	1050	1000
12.100	11.3	-	-	10.2	21x1.5	24.0	1300	1000
12.100	10.5	-	-	9.6	24x1.5	25.5	1450	1000
12.100	10.2	-	-	9.4	27x1.5	26.0	1500	1000
12.100	9.9	-	-	9.1	30x1.5	27.0	1600	1000
12.100	9.3	-	-	8.6	37x1.5	28.5	1800	1000
12.100	9.0	-	-	8.4	40x1.5	29.5	1950	1000
12.100	8.4	-	-	7.9	48x1.5	32.0	2250	1000
12.100	7.8	-	-	7.4	52x1.5	32.5	2350	1000
12.100	7.5	-	-	7.2	61x1.5	35.5	2900	1000
-	-	-	-	-	-	-	-	-



Laying / Installation method:

Linear | ○○○  
Triangular | ○○○



**// Application**

Used as control cable, indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distribution and industrial plants where there is risk of mechanical damage.

**// Construction**

1. Solid or stranded copper conductor.
2. XLPE insulation.
3. Filter
4. Galvanized round steel wires.
5. Polyester tape.
6. PVC outer jacket.

**// Cable Summary**

Max. operating temperature	: 70°C
Max. short circuit temperature	: 160°C (max. 5 sec.)
Rated voltage	: 0.6/1 kV
Min. bending radius	: 12 x D

D = Cable outer diameter

**// Standards**

IEC 60502 | BS 5467

**// Code**

YXZ2V-U | YXZ2V-R | CU/XLPE/SWA/PVC | N2XRY

U: Solid Conductor

R: Stranded conductor



Electrical Properties					Dimensions & Weights			
DC Conductor Resistance @ 20 °C	Current Carrying Capacity				Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
	ohm/km	in Ground @ 20 °C	in Duct @ 20 °C	in Air @ 30 °C				
7.410	28.0	-	-	24.0	5x2.5	16.0	500	1000
7.410	26.0	-	-	22.4	6x2.5	17.5	700	1000
7.410	24.0	-	-	20.8	7x2.5	18.0	700	1000
7.410	22.0	-	-	19.2	8x2.5	19.0	800	1000
7.410	20.0	-	-	17.6	10x2.5	21.0	950	1000
7.410	19.0	-	-	16.8	12x2.5	21.5	1050	1000
7.410	18.0	-	-	16.0	14x2.5	22.0	1100	1000
7.410	17.0	-	-	15.2	16x2.5	24.0	1350	1000
7.410	16.0	-	-	14.4	19x2.5	25.0	1450	1000
7.410	15.0	-	-	13.6	21x2.5	26.0	1600	1000
7.410	14.0	-	-	12.8	24x2.5	28.0	1850	1000
7.410	13.6	-	-	12.5	27x2.5	28.5	1900	1000
7.410	13.2	-	-	12.2	30x2.5	29.5	2050	1000
7.410	12.4	-	-	11.5	37x2.5	31.5	2300	1000
7.410	12.0	-	-	11.2	40x2.5	32.5	2500	1000
7.410	11.2	-	-	10.6	48x2.5	36.5	3200	1000
7.410	10.4	-	-	9.9	52x2.5	37.5	3400	1000
7.410	10.0	-	-	9.6	61x2.5	39.5	3750	1000
-	-	-	-	-	-	-	-	-



Laying / Installation method:

- Linear | ○○○
- Triangular | ○○

