

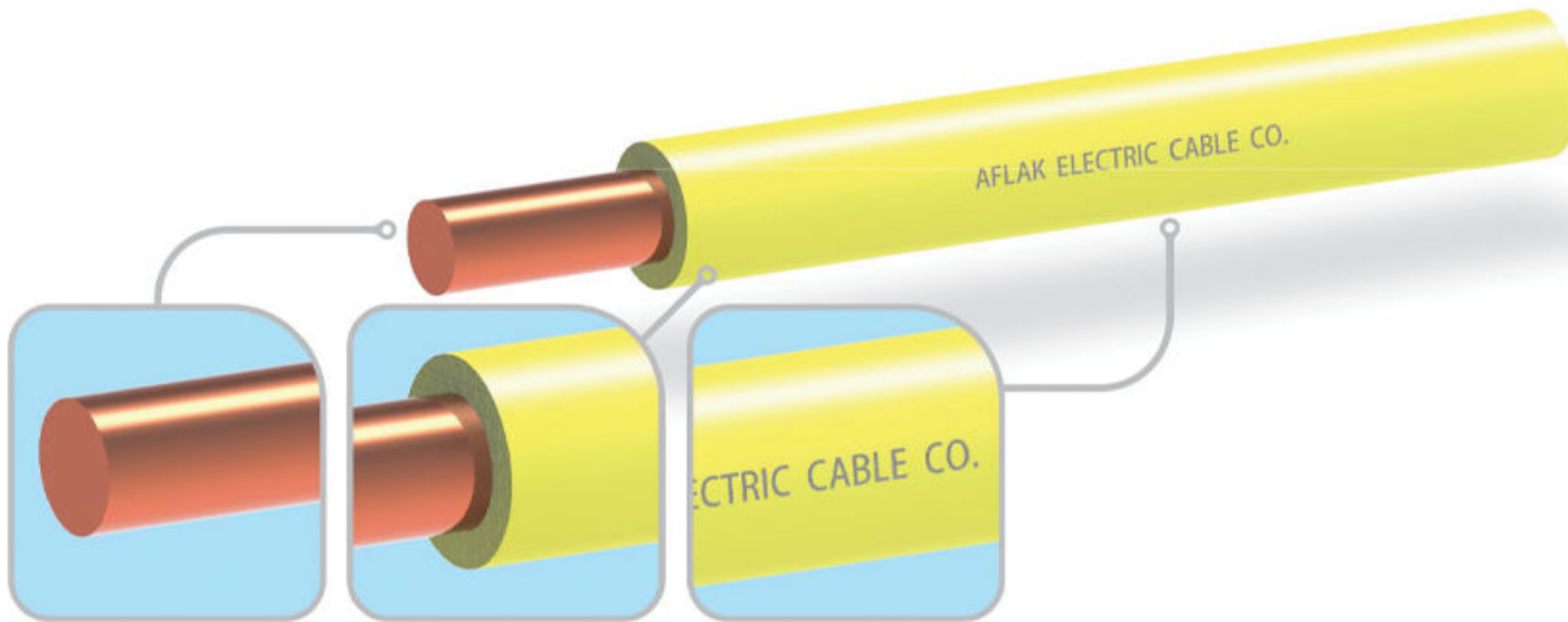
WIRES

- Rigid Wire - NYA
- Flexible Wire – NYAF
- (Bare) Earth Wire



AFLAK ELECTRIC KHORASAN

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NYA

Single Core with Non-flexible copper conductor

Non-flexible wires with copper conductor according to IEC 60227-3 standard with 60227 IEC 01 code designation in cross section 1.5 mm^2 to 400 mm^2 with voltage level

$U_0 / U = 450/750 \text{ V}$

and with 60227 IEC 05 code designation

in 0.5 cross section mm^2 to 1 mm^2 is produced with voltage level.

$U_0 / U = 300/500 \text{ V}$

Feature Code Naming according to VDE standard type : NYA

Standard: ASTM B49 – VDE 0207-4

Structure:

CU/PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 1 - Solid conductors (re) or class 2 - Stranded conductor (rm)

Insulation : PVC type C ($70 \text{ }^\circ\text{C}$) – PVC type E ($90 \text{ }^\circ\text{C}$)

Application

These wires are used for fixed installation in the control of electrical circuits, internal wiring for power and lighting and internal wiring in dry areas and are manufactured in ACC

It should be noted that their use directly under the wall is not allowed.

NYA

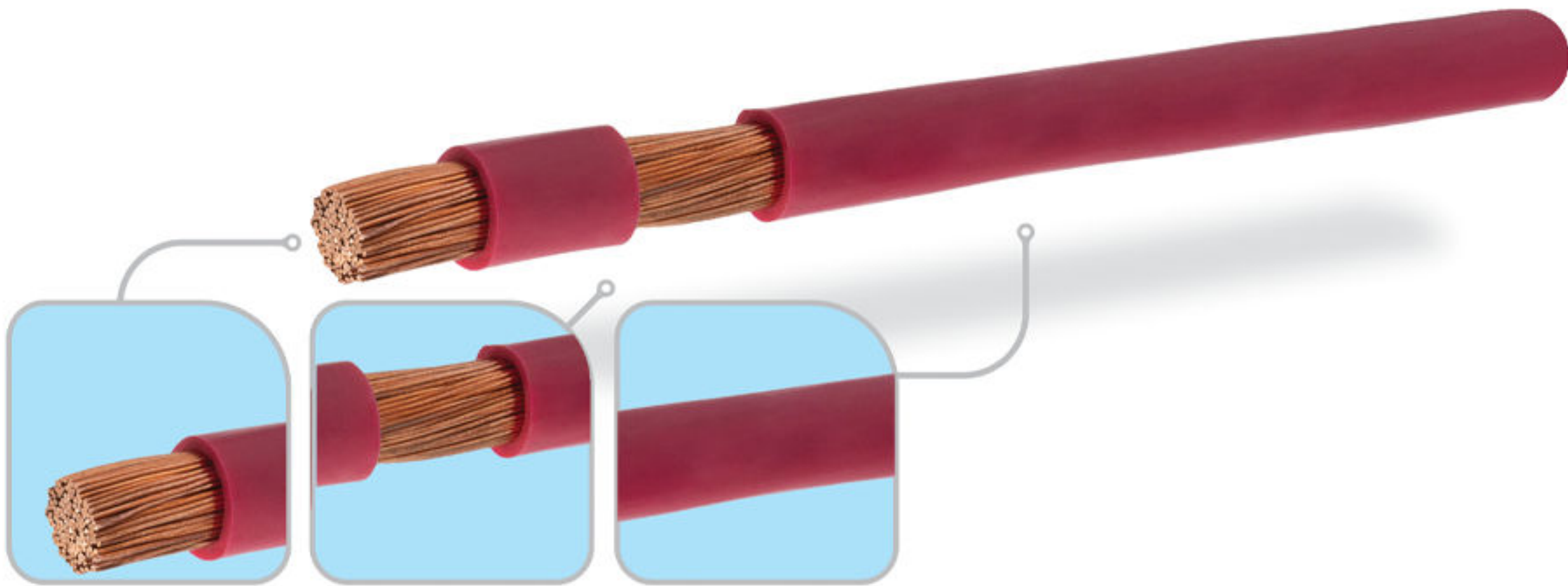
Single Core with Non-flexible copper conductor

60227 IEC 05 (300/500 V)

Wire size conductor		structure	Insulation Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	Kg/Km	m
0.5re	20	1*0/79	0/6	1/99	8/2	100
0.75re	18	1*97/0	0/6	2/17	10/9	100
1re	17	1*1/11	0/6	2/3	11/8	100

60227 IEC 05 (450/750 V)

Wire size conductor		structure	Insulation Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	Kg/Km	m
1.5re	16	1.35	0.7	2.75	19/3	100
1.5rm	16	7*0/52	0/7	2/96	20.5	100
2.5re	14	1*1/74	0/8	3/34	30/5	100
2.5rm	14	7*0/69	0/8	3/67	33/8	100
4re	12	1*2/2	0/8	3/8	44/8	100
4rm	12	7*0/84	0/8	4/12	44/7	100
6re	10	1*2/70	0/8	4/3	63/7	100
6rm	10	7*1/01	0/8	4/63	32/9	100
10re	8	1*3/50	1	5/55	151	100
10rm	8	7*1/35	1	6/05	112	100
16rm	6	7*1/70	1	7/1	227	1000
25rm	4	7*2/12	1/2	8/8	331	1000
35rm	2	7*2/48	1/2	9/8	425	1000
50rm	1	7*2/87	1/4	11/4	557	1000
70rm	2/0	19*2/10	1/4	13/3	772	1000
95rm	3/0	19*2/46	1/6	15/5	1040/6	1000
120rm	4/0	37*2	1/6	17/2	1305	1000
150rm	300	2/2/37	1/8	19	1573	1000
185rm	350	37*2/48	2	21/4	1980/8	1000
240rm	500	37*2/82	2/2	24/1	2533	1000
300rm	600	37*3/18	2/4	27/1	3189/8	1000



NYAF

Single Core with Flexible copper conductor

Flexible wires with copper conductor according to IEC 60227-3 standard with code designation 60227 IEC 02 in cross section 1.5 mm^2 to 240 mm^2 with voltage level

$U_0 / U = 450/750 \text{ V}$

and with code designation Produced in mm^2 to 1 mm^2 with voltage level

$U_0 / U = 300/500 \text{ V}$

Feature Code Naming according to VDE standard type : NYAF

Standard: ASTM B49 – VDE 0207-4

Structure

CU/PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 5 - Flexible conductors

Insulation : PVC type C ($70 \text{ }^\circ\text{C}$) – PVC type E ($90 \text{ }^\circ\text{C}$)

Application:

These wires, which have high flexibility, are used to connect lighting circuits and electrical commands in dry areas and where there is no mechanical stress and are manufactured in ACC

It should be noted that their use directly under the wall is not allowed.

NYAF

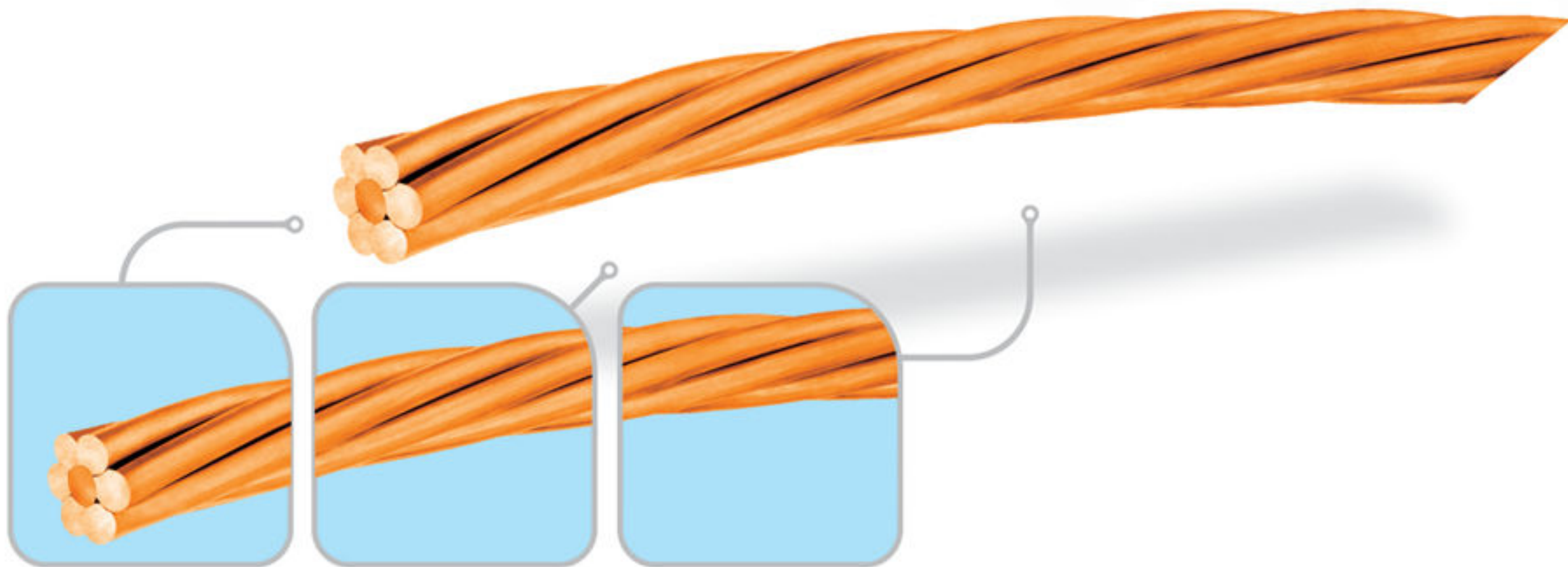
Single Core with Flexible copper conductor

60227 IEC 05 (300/500 V)

Wire size conductor		structure	Insulation Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	Kg/Km	m
0.5	20	22*0.17	0.6	2.2	9/1	100
0.75	18	24*0.20	0.6	2.4	12/2	100
1	17	30*0.20	0.6	2.4	14/3	100

60227 IEC 04 (450/750 V)

Wire size conductor		structure	Insulation Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	Kg/Km	m
1.5	16	30*0.24	0.7	3	20/2	100
2.5	14	50*0.24	0.8	3/6	31/70	100
4	12	56*0.29	0.8	4/15	46/9	100
6	10	83*0.29	0/835	4/7	65/2	100
10	8	80*0.39	1/05	6/01	112/9	100
16	6	125*0/39	1/05	7/11	169	1000
25	4	194/0/39	1/2	8/64	258	1000
35	2	272*0/39	1/21	9/8	351/8	1000
50	1	390*0/39	1/4	11/64	501/8	1000
70	2/0	555*0/39	1/4	13/35	696/9	1000
95	3/0	730*0/39	1/6	15/3	916/8	1000
120	4/0	560*0/5	1.6	16/82	1150	1000
150	300	700*0/5	1/8	18/82	1438/4	1000
185	350	853*0/5	2	20/8	1754	1000
240	500	1127*0/5	2/2	23/72	2305/7	1000



(Bare) Earth Wire

Plain Copper Conductor

Structure

Conductor: Plain annealed copper conductor according to ASTM B3

Class 2 - Stranded conductor (rm)

ASTM B3					
Wire size conductor		structure	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	Kg/Km	m
16	6	7*1/70	5/1	143/4	1000
25	4	7*2/12	6/36	223	1000
35	2	7*2/48	7/43	304	1000
50	1	7*2/87	8/61	408/6	1000
70	2/0	19*2/10	10/50	593/8	1000
95	3/0	19*2/46	12/30	814/8	1000
120	4/0	2*37	14	1048/8	1000
150	300	37*2/2	15/4	1269	1000
185	350	37*2/48	17/36	1612/6	1000
240	500	37*2/82	19/74	2085	1000

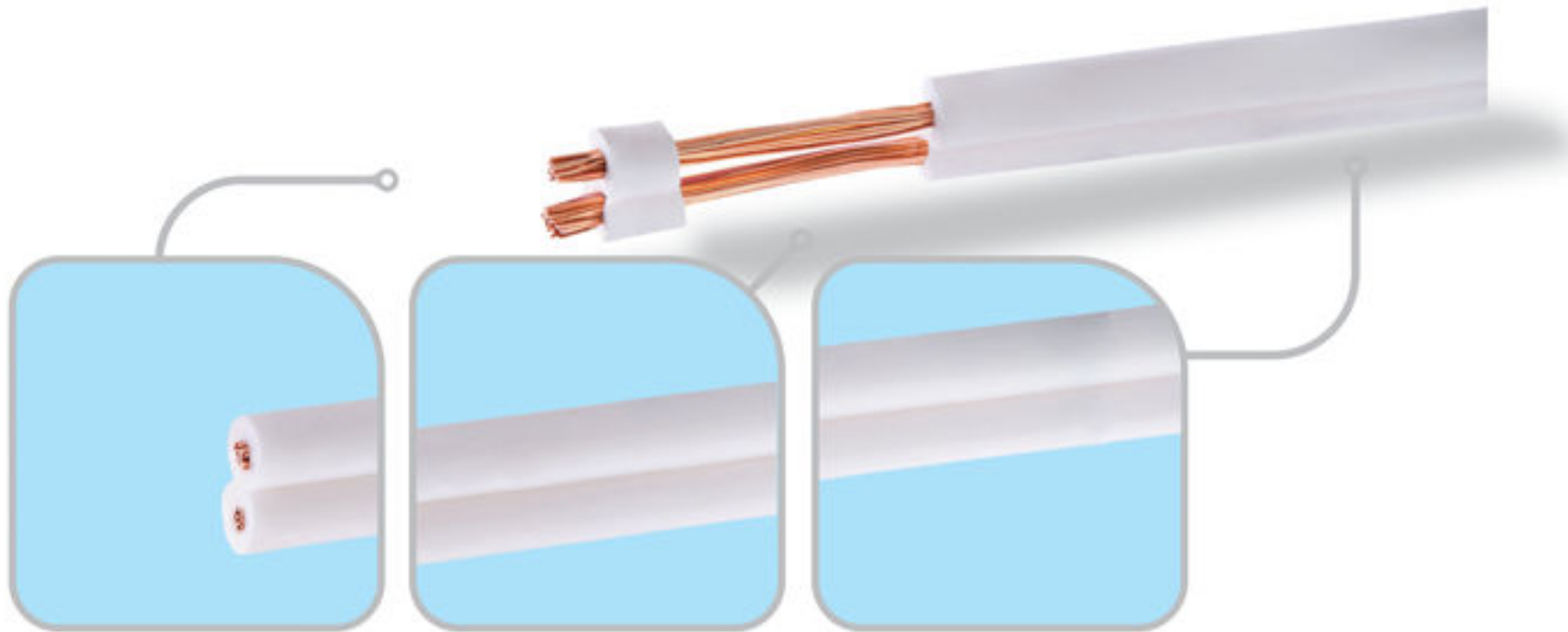
INDOOR CABLE

- NYZ
- NYLHY
- NYMHY
- NYM
- NYIFY



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NYZ

Flat Wire

Flat wires, which are commonly known as nylon wires in the market, are produced according to the IEC 60227-5 standard in uncoated types with the code designation 60227 IEC 42

The voltage level of these products is

$U_0 / U = 300/300 \text{ V}$

Feature Code Naming according to VDE standard type : NYZ

Structure

CU/PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 5 - Flexible conductors

Insulation : PVC type D (70 °c)

Application :

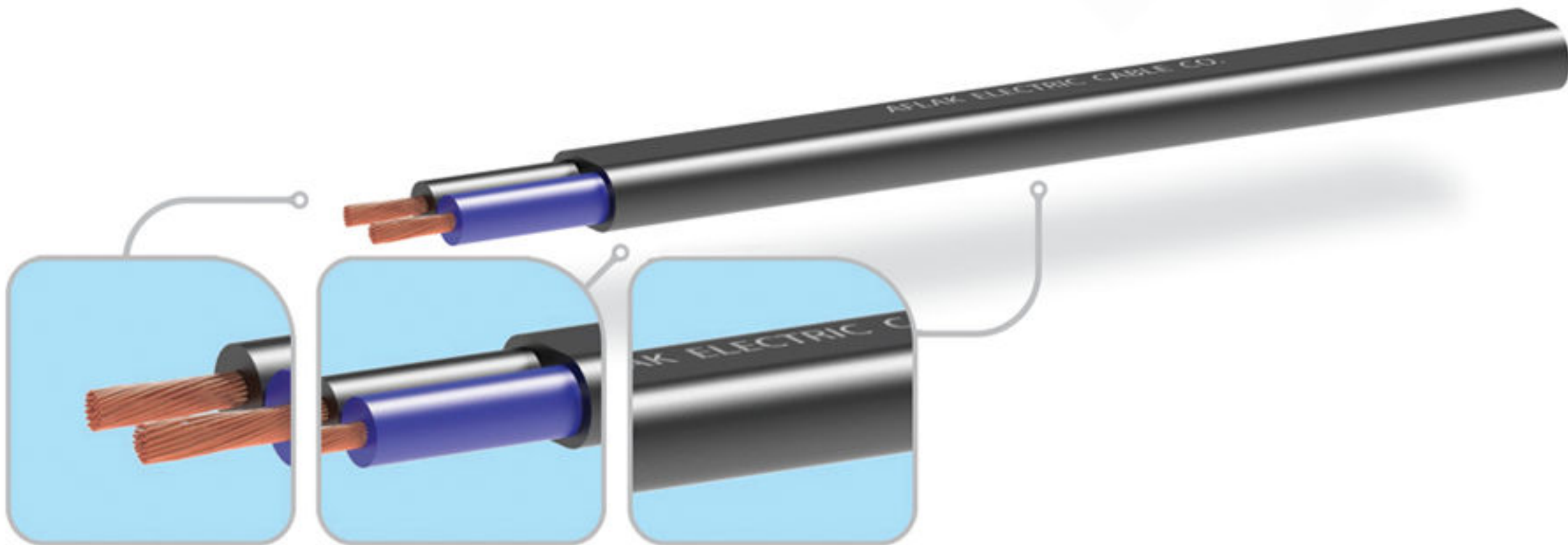
These wires, which have a very high flexibility, are used to power portable electrical devices in dry areas and where there is no mechanical stress. Use in environments above 40 degrees Celsius is not allowed.

NYZ

Flat Wire

60227 IEC 52 (300/500 V)

Wire size conductor		structure	Insulation Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	Kg/Km	m
2*0.35	2*21	11*0/20	0.8	2/35*4/8	17/8	100
2*0.5	2*20	22*0/17	0/8	2/51*5/1	21/9	100
2*0.75	2*18	32*0/17	0/8	2/7*5/5	27/4	100
2*1	2*17	30*0/20	0/8	2/85*5/8	32/3	100
2*1.5	2*16	30*0/24	0/8	3/1*6/3	42/2	100
2*2.5	2*14	50*0/24	0/8	3/55*7/2	62/4	100



NYLHY

Lightweight flexible cable

Lightweight flexible cable

Lightweight flexible cables, are produced according to IEC 60227-5 standard with code designation 60227 IEC 52 in 2 and 3 core with sizes cross sections 0.5 and 0.75

The way the strings are placed next to each other can be twisted round or parallel to each other.

The voltage level of these products is.

$U_0 / U = 300/500 \text{ V}$

Feature Code Naming according to VDE standard type : NYLHY

Standard: ASTM B49 – VDE 0207-5

Structure

CU/PVC/PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 5 - Flexible conductors

Insulation : PVC type D (70 °c)

Colors for core identification

Twin: blue & black

3-core: blue & black & (grey or green/yellow)

Over-Sheath : PVC type ST5 (70 °c)

Colors for sheath : black or White

Application:

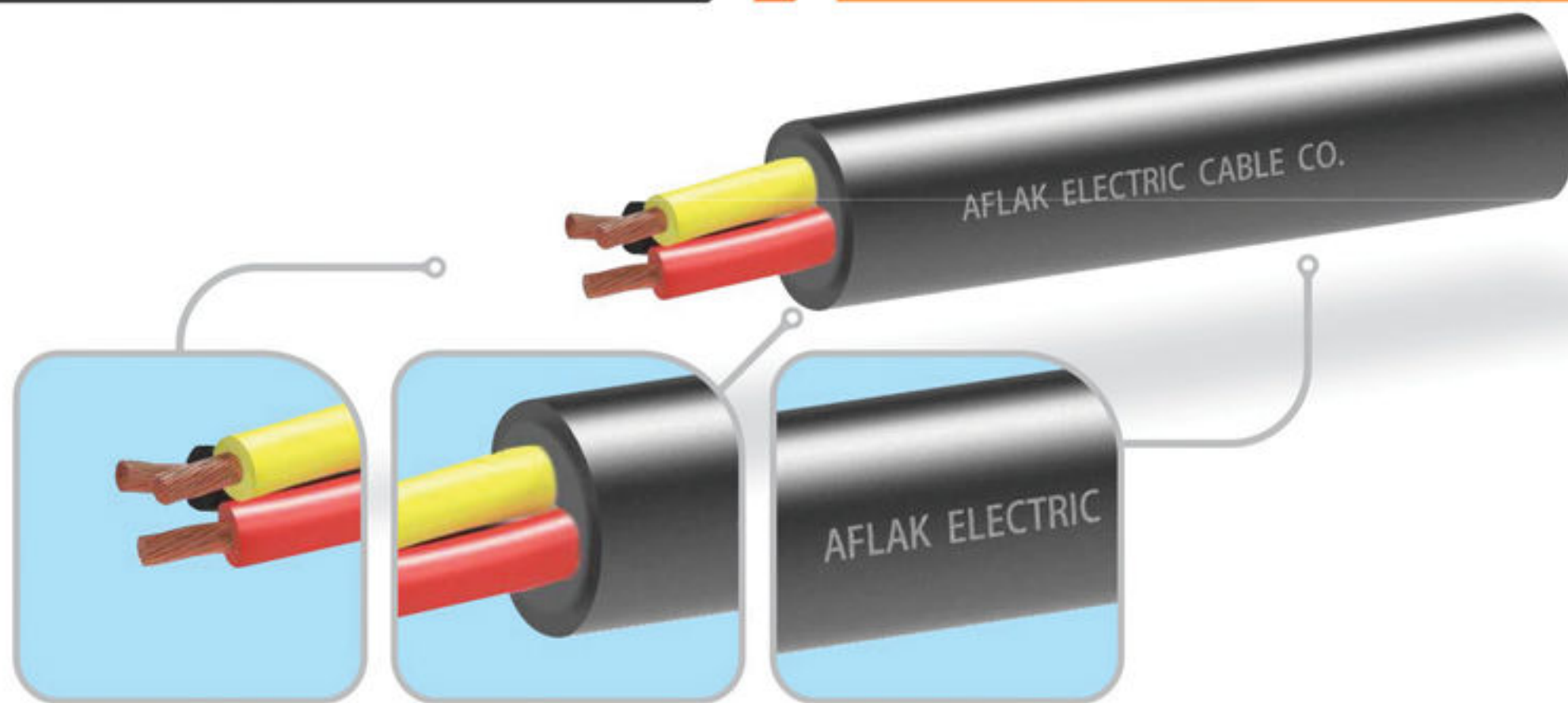
Due to their high flexibility, these cables are used to power portable electrical devices in dry areas and where there is no mechanical stress and used in internal wiring of building or instruments and for lighting with flexible conductors and manufactured in ACC

NYLHY

Lightweight flexible cable

60227 IEC 52 (300/500 V)

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG						
2*0.5	2*20	22*0/17	0/6	0/6	5/6	43/85	100
2*0.5 flat	2*20	22*0/17	0/6	0/6	5/6*3/4	29/4	100
2*0.75	2*18	24*0/20	0/6	0/8	6/4	58/4	100
2*0.75 flat	2*18	24*0/20	0/6	0/6	6*3/6	35/9	100
3*0.5	3*20	22*0/17	0/6	0/6	6	52/1	100
3*0.75	3*18	24*0/17	0/6	0/8	6/78	69/7	100



NYMHY

Flexible cable with voltage level 300/500 v & 450/750 v

Flexible cables with voltage level

$U_0 / U = 300/500 \text{ V}$

are produced according to IEC 60227-5

standard with the code designation 60227IEC53 in 2 and 5 core with sizes cross sections of 0.75 mm^2 to 4 mm^2 .

Flexible cables with voltage level,

$U_0 / U = 450/750 \text{ V}$,

which are referred to as lifting cables

according to IEC 60227-6 standard with the code designation 607 IEC 71c in sizes of 2 core and above with cross section 1.5 mm^2 to 25 mm^2 is produced.

The way the strings are placed next to each other should be rounded.

Feature Code Naming according to VDE standard type : NYMHY

Structure

CU/PVC/PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 5 - Flexible conductors

Insulation : PVC type D ($70 \text{ }^\circ\text{C}$)

Colors for core identification

Twin: blue & black

3-core: blue & black & (grey or green/yellow)

4-core: blue & brown & black & (grey or green/yellow)

5-core: blue & brown & black & red & (grey or green/yellow)

Over-Sheath : PVC type ST5 ($70 \text{ }^\circ\text{C}$)

Colors for sheath : black or White

Application:

This type of cable is used to power portable electrical appliances and equipment in homes and offices, as well as heating appliances up to 500 volts in places that require more flexibility.

NYMHY

Flexible cable with voltage level 300/500 v & 450/750 v

60227 IEC 53 (300/500 V)

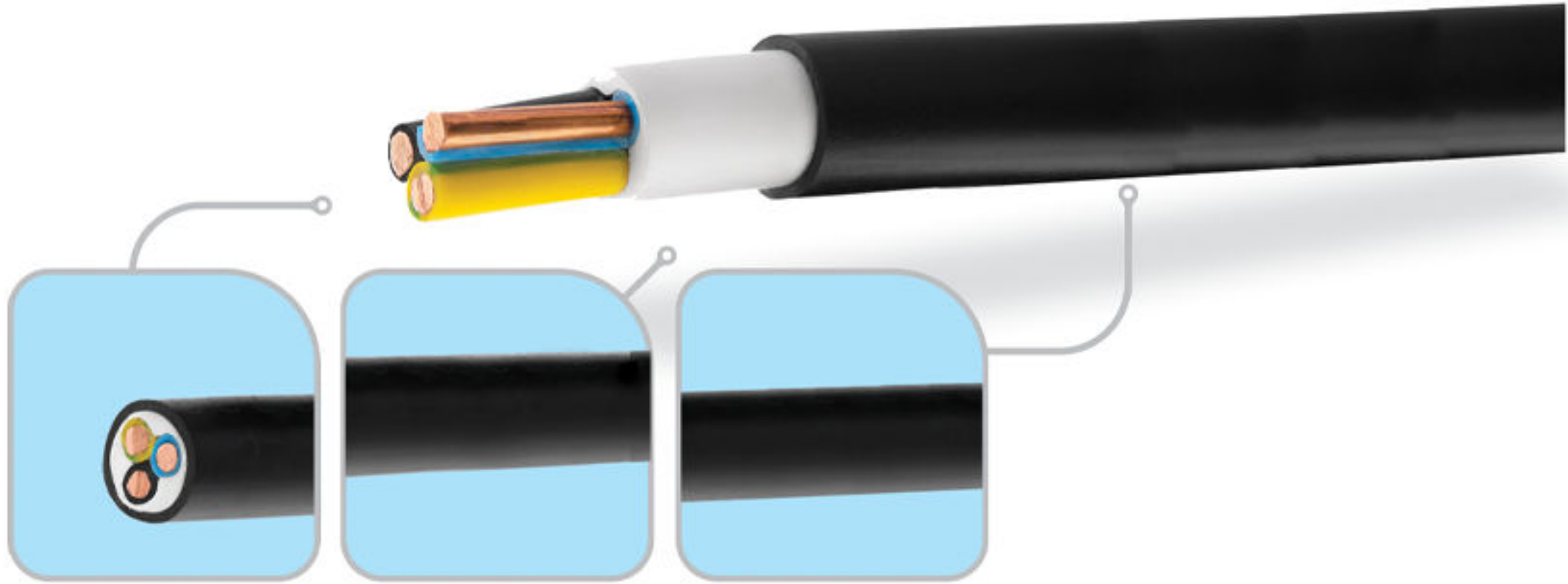
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG						
2*0.75	2*18	24*0/20	0/6	0/8	6/4	58/4	100
2*1	2*17	30*0/20	0/6	0/8	6/7	65/66	100
2*1.5	2*16	30*0/24	0/7	0/8	7/6	86/82	100
2*2.5	2*14	50*0/24	0/8	1	9/2	131/37	100
2*4	2*12	56*0/29	0/8	1/1	10/5	181/68	100
3*0.75	3*18	24*0/20	0/6	0/8	6/7	69/69	100
3*1	3*17	30*0/20	0/6	0/8	7/1	78/84	100
3*1.5	3*16	30*0/24	0/7	0/9	8/2	109/23	100
3*2.5	3*14	50*0/24	0/8	1/1	9/9	165/19	100
3*4	3*12	56*0/29	0/8	1/1	11/2	225/2	100
4*0/75	4*18	24*0/20	0/6	0/8	7/4	85/42	100
4*1	4*17	30*0/20	0/6	0/9	8/1	100/88	100
4*1.5	4*16	30*0/24	0/7	1	9/3	139/12	100
4*2.5	4*14	50*0/24	0/8	1/1	10/9	204/51	100
4*4	4*12	56*0/29	0/8	1/1	12/4	287/2	100
5*0.75	5*18	24*0/20	0/6	0/8	7/4	85/42	100
5*1	5*17	30*0/20	0/6	0/9	8	100/88	100
5*1.5	5*16	30*0/24	0/7	1	9/3	139/12	100
5*2.5	5*14	50*0/24	0/8	1/1	10/9	204/51	100
5*4	5*12	56*0/24	0/8	1/3	13/8	355/57	100

NYMHY

Flexible cable with voltage level 300/500 v & 450/750 v

60227 IEC 71C (450/750 V)

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	mm	Kg/Km	M
2*0/75	2*18	24*0/20	0/6	1	6/8	64/5	100
3*0/75	3*18	24*0/20	0/6	1	7/2	76/2	100
4*0/75	4*18	24*0/20	0/6	1	7/4	84/9	100
5*0/75	5*18	24*0/20	0/6	1	8/5	110/6	100
2*1	2*17	30*0/20	0/6	1	7/1	72/1	100
3*1	3*17	30*0/20	0/6	1	7/5	85/8	100
4*1	4*17	30*0/20	0/6	1	7/7	96/2	100
5*1	5*17	30*0/20	0/6	1	8/9	125/6	100
2*1/5	2*16	30*0/24	0/7	1	8	94/1	100
3*1/5	3*16	30*0/24	0/7	1	8/5	113/1	100
4*1/5	4*16	30*0/24	0/7	1	8/7	127/8	100
5*1/5	5*16	30*0/24	0/7	1	10/1	167/9	100
2*2/5	2*14	50*0/24	0/8	1	9/2	131/6	100
3*2/5	3*14	50*0/24	0/8	1	9/8	160/8	100
4*2/5	4*14	50*0/24	0/8	1	10/1	184/1	100
5*2/5	5*14	50*0/24	0/8	1/3	12/3	259/3	100
2*4	2*12	56*0/29	0/8	1	10/3	176/8	100
3*4	3*12	56*0/29	0/8	1	11	220/1	100
4*4	4*12	56*0/29	0/8	1/3	11/9	271/7	100
5*4	5*12	56*0/29	0/8	1/3	13/8	355/6	100
2*6	2*10	83*0/29	0/85	1/3	12	246/8	100
3*6	3*10	80*0/38	0/85	1/3	12/8	308/2	100
4*6	4*10	83*0/29	0/85	1/3	13/1	359/4	100
5*6	5*10	80*0/38	0/85	1/3	15/3	470/6	100
2*10	2*8	83*0/29	1.05	1/3	14/8	384/6	100
3*10	3*8	80*0/38	1.05	1/3	15/8	484/3	1000
4*10	4*8	83*0/29	1.05	1/3	16/3	567/6	1000
5*10	5*8	80*0/38	1.05	1/6	19/7	775	1000
2*16	2*6	125*0/39	1.05	1/6	17/4	555	1000
3*16	3*6	125*0/39	1.05	1/6	18/5	704	1000
4*16	4*6	125*0/39	1.05	1/6	19/1	830/4	1000
5*16	5*6	125*0/39	1.05	2	23/2	1132	1000
2*25	2*4	194*0/39	1.2	1/6	20/5	801/7	1000
3*25	3*4	194*0/39	1.2	2	22/7	1068/4	1000
4*25	4*4	194*0/39	1.2	2	23/3	1263	1000
5*25	5*4	194*0/39	1.2	2/4	28/1	1705/8	1000



NYM

Un Flexible cable with voltage level 300/500 v

Un Flexible cables with voltage level

$U_0 / U = 300/500 \text{ V}$

are produced according to IEC 60227-4 standard

with the code designation 60227IEC10 in 2 and 5 core with sizes cross sections of 1.5 mm^2 to 35 mm^2

Feature Code Naming according to VDE standard type : NYM

Structure : CU/PVC/ FILLER PVC/ PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 1 - Solid conductors (re) or class 2 - Stranded conductor (rm)

Insulation : PVC type C ($70 \text{ }^\circ\text{C}$)

Colors for core identification

Twin: blue & black

3-core: blue & black & (grey or green/yellow)

4-core: blue & brown & black & (grey or green/yellow)

5-core: blue & brown & black & red & (grey or green/yellow)

Filler : Extruded PVC

Over-Sheath : PVC type ST5 ($70 \text{ }^\circ\text{C}$)

Colors for sheath : black or White

Application : This type of cable is used to power portable electrical appliances and equipment in homes and offices, as well as heating appliances up to 500 volts in places that require more flexibility.

NYM

Un Flexible cable with voltage level 300/500 v

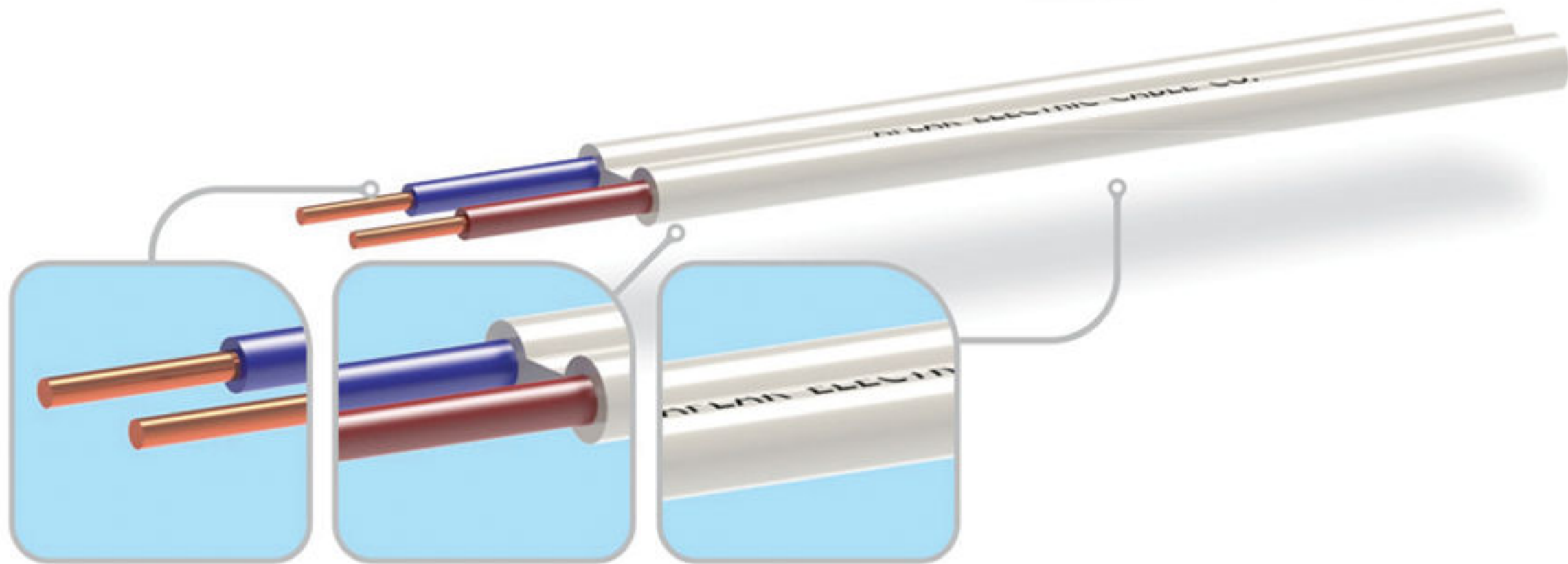
60227 IEC 10 (300/500 V)							
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	mm	Kg/Km	m
2*1.5 re	2*16	1/35	0/7	1/2	9/3	128/5	100
2*1.5 rm	2*16	7*0/52	0/7	1/2	9/7	138/1	100
2*2.5 re	2*14	1/74	0/8	1/2	10/5	171/7	100
2*2.5 rm	2*14	7*0/69	0/8	1/2	11/1	191	100
2*4 re	2*12	2/2	0/8	1/2	11/4	218	100
2*4 rm	2*12	7*0/84	0/8	1/2	12	234/8	100
2*6 re	2*10	2/7	0/8	1/2	12/4	276/3	100
2*6 rm	2*10	7*1/01	0/8	1/2	13/1	291	100
2*10 re	2*8	3/5	1	1/4	15/4	438/1	1000
2*10 rm	2*8	7*1/35	1	1/4	16/5	479/7	1000

NYM

Un Flexible cable with voltage level 300/500 v

60227 IEC 10(300/500 V)

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	mm	Kg/Km	m
2*16 rm	2*6	7*1/70	1	1/4	18/6	654/1	1000
2*25 rm	2*4	7*2/12	1.2	1/4	21/9	946/3	1000
2*35 rm	2*2	7*2/48	1.2	1/6	24/5	1217/5	1000
3*1.5 re	3*16	1/35	0/7	1/2	9/9	153/7	100
3*1.5 rm	3*16	7*0/52	0/7	1/2	10/4	164/4	100
3*2.5 re	3*14	1/74	0/8	1/2	11/2	208	100
3*2.5 rm	3*14	7*0/69	0/8	1/2	11/9	230	100
3*4 re	3*12	2/2	0/8	1/2	12/2	268/4	1000
3*4 rm	3*12	7*0/84	0/8	1/2	12/9	286/7	1000
3*6 re	3*10	2/70	0/8	1/4	13/7	357/6	1000
3*10 re	3*8	3/5	1	1/4	16/3	539/8	1000
3*10 rm	3*8	7*1/35	1	1/4	17/5	585/5	1000
3*16 rm	3*6	7*1/70	1	1/4	19/7	812/2	1000
3*25 rm	3*4	7*2/12	1.2	1/6	23/7	1209	1000
3*35 rm	3*2	7*2/48	1.2	1/6	26	1538	1000
4*1.5 re	4*16	1/35	0/7	1/2	10/7	182/1	100
4*1.5 rm	4*16	7*0/52	0/7	1/2	11/2	195	100
4*2.5 re	4*14	1/74	0/8	1/2	12/1	250/1	1000
4*2.5 rm	4*14	7*0/69	0/8	1/2	12/9	277/3	1000
4*4 re	4*12	2/2	0/8	1/4	13/6	399/2	1000
4*4 rm	4*12	7*0/84	0/8	1/4	14/4	361/6	1000
4*6 re	4*10	2/7	0/8	1/4	14/8	438/3	1000
4*6 rm	4*10	7*1/01	0/8	1/4	15/6	455/2	1000
4*10 re	4*8	3/5	1	1/4	17/7	669/7	1000
4*10 rm	4*8	7*1/35	1	1/4	19	724/4	1000
4*16 rm	4*6	7*1/70	1	1/4	21/6	1015	1000
4*25 rm	4*4	7*2/12	1.2	1/6	26	1517/5	1000
4*35 rm	4*2	7*2/48	1.2	1/6	28/6	1940/6	1000
5*1.5 re	5*16	7*0/52	0/7	1/2	11/4	213/6	1000
5*1.5 rm	5*16	1/74	0/7	1/2	12	228/9	1000
5*2.5 re	5*14	1/74	0/8	1/2	13	296/5	1000
5*2.5 rm	5*14	7*0/69	0/8	1/2	13/9	329/4	1000
5*4 re	5*12	2/2	0/8	1/4	14/7	404	1000
5*4 rm	5*12	7*0/84	0/8	1/4	15/5	431/2	1000
5*6 re	5*10	2/7	0/8	1/4	16	526/1	1000
5*6 rm	5*10	7*1/01	0/8	1/4	16/9	546	1000
5*10 re	5*8	3/5	1	1/4	19/3	810/2	1000
5*10 rm	5*8	7*1/35	1	1/4	20/7	876/8	1000
5*16 rm	5*6	7*1/70	1	1/6	24	1257/2	1000
5*25 rm	5*4	7*2/12	1.2	1/6	28/5	1852/2	1000
5*35 rm	5*2	7*2/48	1.2	1/6	31/3	2376	1000



NYIFY

Un Flexible Flat cable with voltage level 300/500 v

Un Flexible Flat cables with voltage level

$U_0 / U = 300/500 \text{ V}$

are produced according to

VDE 0250 standard in 2 and 3 core with sizes cross sections of 1 mm^2 to 4 mm^2 .

Feature Code Naming according to VDE standard type : NYIFY

Structure

CU/ PVC/ PVC

Conductor: Plain annealed copper conductor according to ASTM B3
Class 1 - Solid conductors (re) or class 2 - Stranded conductor (rm)

Insulation : PVC type C (70 °c)

Colors for core identification

Twin: blue & red

3-core: blue & black & red

Over-Sheath : Flexible PVC (70 °c)

Colors for sheath : black or White

Application :

This type of cable is used to power portable electrical appliances and equipment in homes and offices, as well as heating appliances up to 500 volts in places that require more flexibility

NYIFY

Un Flexible Flat cable with voltage level 300/500 v

VDE 0250 (300/500 V)

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO.*mm	mm	mm	mm	Kg/Km	m
2*1 re	2*17	1*1.11	0/6	0.75	3.85*10.7	54.0	100
2*1 rm	2*17	7*0.52	0/6	0.75	4*11	55.6	100
2*1.5 re	2*16	1*1.35	0/6	0.75	4.1*11.05	65.2	100
2*1.5 rm	2*16	7*0.52	0/6	0.75	4.3*11.45	68.6	100
2*2.5 re	2*14	1*1/7	0/65	0.75	4.5*11.9	88.2	100
2*2.5 rm	2*16	7*0.69	0/65	0.75	4.9*12.7	99.2	100
2*4 re	2*12	1*2	0/7	0.75	4.9*12.8	110.3	100
2*4 rm	2*12	7*0.84	0/7	0.75	5.4*13.8	130	100
3*1.5 re	3*16	1*1.11	0/6	0.75	3.95*17.85	80.2	100
3*1.5 rm	3*16	7*0.52	0/6	0.75	4.1*18.3	107.2	100
3*2.5 re	3*14	1*1.7	0/65	0.75	4.3*18.9	112.3	100
3*2.5 rm	3*14	7*0.69	0/65	0.75	4.5*18.7	135.7	100

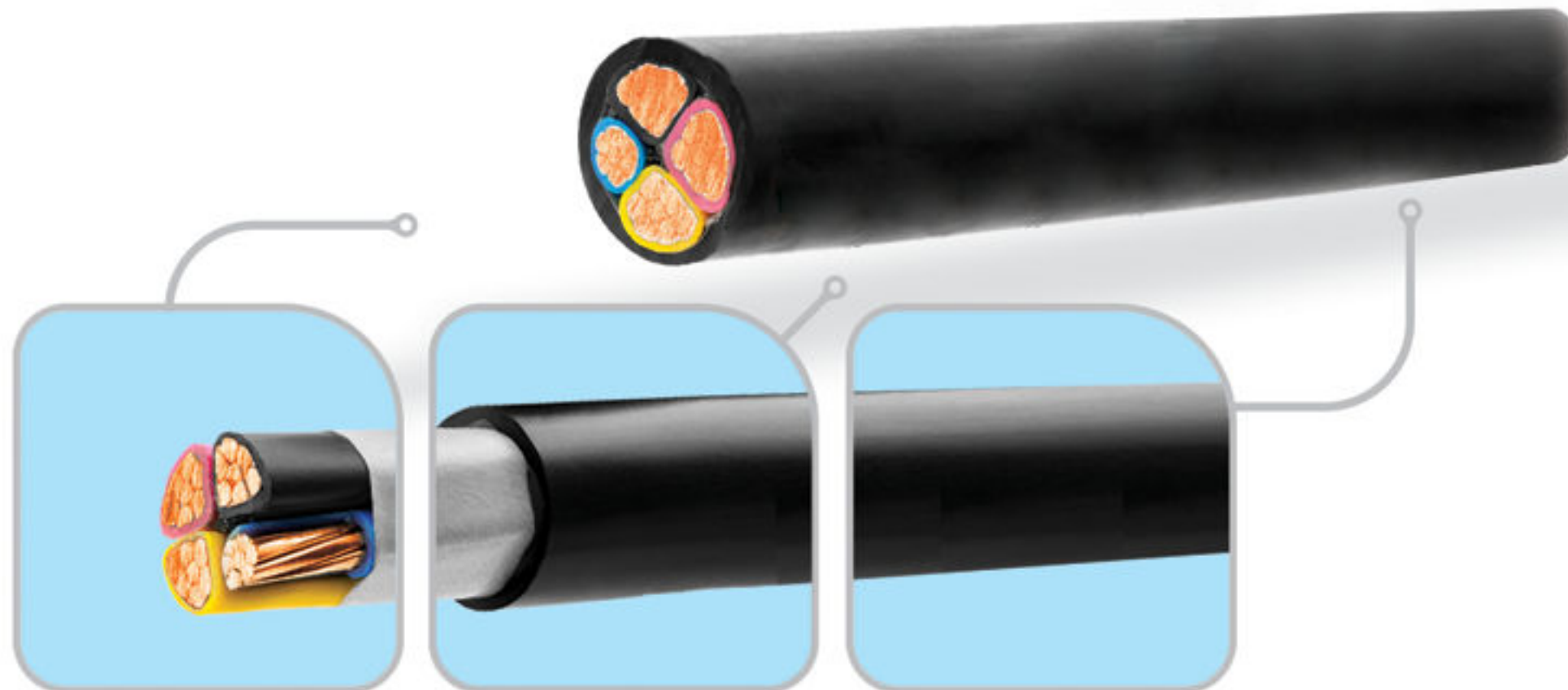
POWER CABLE

- NYY
- NYYF
- NAYY
- NA2XY



AFLAK ELECTRIC KHORASAN

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NY Y

Power cable with copper conductor with voltage level of 0.6 / 1 KV

Power cable with solid or stranded copper conductor with voltage level of 0.6 / 1 KV according to IEC 60502-1 standard with 1 to 5 core in the cross section of 1.5 mm² to 1000 mm²

In designing 4-strand cables, according to the application according to the mentioned standard, we are allowed to use a strand with a smaller cross-section, which in the term are called three-and-a-half-strand cables : For example, 3 * 35 + 16 cable

In this type of cables, from the cross section of 35 and above compacted conductor and from the cross section of 50 and above, Sector conductor can be used for 3 phase wires.

Feature Code Naming according to VDE standard type : NY Y

Structure

CU/PVC/ FILLER (inner covering) / PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 1 - Solid conductors (re) or class 2 - Stranded conductor (rm) wires 35 mm² and above and stranded conductor wires 35mm and sector conductor wires 50 mm and above (sm)

Insulation : PVC type A (70 °c)

Colors for core identification

Twin: blue & black

3-core: blue & black & (yellow or green/yellow)

4-core: blue & brown & black & (yellow or green/yellow)

5-core: blue & brown & black & red & (yellow or green/yellow)

Filler : Extruded PVC / P.P Tape

Over-Sheath : PVC type ST1 (70 °c)

Colors for sheath : black

Application:

These cables are used for low voltage distribution lines up to 1000 volts in commercial and industrial residential centers and their installation is inside or outside the building, canals and basements and places where there is no possibility of mechanical shocks.

NYY

Power cable with copper conductor with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
1*10	8	1*3.50	1	1.4	8.3	151.0	1000
1*16	6	7*1.70	1	1.4	9.9	227.1	1000
1*25	4	7*2.12	1.2	1.4	11.6	331.3	1000
1*35	2	7*2.48	1.2	1.4	12.6	425.3	1000
1*50	1	7*2.87	1.4	1.4	14.2	557.3	1000
1*70	2/0	19*2.10	1.4	1.47	16.2	772.0	1000
1*95	3/0	19*2.46	1.6	1.54	18.6	1040.6	1000
1*120	4/0	37*2.00	1.6	1.60	20.4	1305.1	1000
1*150	300	37*2.20	1.8	1.67	22.3	1573.2	1000
1*185	350	37*2.48	2	1.75	24.9	1980.8	1000
1*240	500	37*2.82	2.2	1.84	27.8	2532.9	1000
1*300	600	37*3.18	2.4	1.95	31.0	3189.8	1000

NYY

Power cable with copper conductor with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
2*1.5	۲*۱۶	1*1/35	0/8	1/8	11/1	172/5	1000
2*2.5	2*14	1*1/74	0/8	1/8	11/9	208/8	1000
2*4	2*12	1*2/2	1	1/8	13/6	284/6	1000
2*6	2*10	1*2/7	1	1/8	14/6	384/3	1000
2*10	2*8	1*3/50	1	1/8	16/2	467/5	1000
2*16	2*6	7*1/70	1	1/8	19/4	695/1	1000
2*25	2*4	7*2/12	1/2	1/8	25/1	1016/1	1000
2*35	2*2	7*2/48	1/2	1/9	25/1	1264	1000
3*1.5	3*16	1*1/35	0/8	1/8	11/6	195/1	1000
3*2.5	3*14	1*1/74	0/8	1/8	12/4	241	1000
3*4	3*12	1*2/2	1	1/8	14/3	333/6	1000
3*6	3*10	1*2/7	1	1/8	15/4	415/6	1000
3*10	3*8	1*3/50	1	1/8	17/1	570/8	1000
3*16	3*6	1*1/70	1/2	1/8	20/5	858/1	1000
3*25	3*4	7*2/12	1/2	1/8	24/1	1244/3	1000
3*35	3*2	7*2/48	1/2	1/8	26/4	1580/1	1000
3*50	3*1	19*1/74	1/4	1/9	30/3	2089/1	1000
3*70	3*2/0	19*2/10	1/4	2/1	34/5	2858/4	1000
3*95	3*3/0	19*2/46	1/6	2/2	39/5	3841	1000
4*1.5	4*16	1*1/35	0/8	1/8	12/3	228	1000
4*2.5	4*14	1*1/74	0/8	1/8	13/3	285/5	1000
4*4	4*12	1*2/2	1	1/8	15/4	400/6	1000
4*6	4*10	1*2/7	1	1/8	16/6	504/8	1000
4*10	4*8	1*3/50	1	1/8	18/5	703/4	1000

NYY

Power cable with copper conductor with voltage level of 0.6 / 1 KV

NYY- RIGID IEC 60502-1 (0.6/1 KV)							
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
4*16	4*6	7*1/70	1	1/8	22/4	1067/1	1000
4*25	4*4	7*2/12	1/2	1/8	29/2	1582/6	1000
4*35	4*2	7*2/48	1/2	1/9	29/2	2004/7	1000
4*50	4*1	7*2/87	1/4	1/8	27/5	2025	1000
4*70	4*2/0	19*2/10	1/4	2	31/7	2847	1000
4*95	4*3/0	19*2/46	1/6	2/1	36	3864	1000
4*120	4*4/0	19*2/79	1/6	2/2	39	4872	1000
4*150	4*300	19*3/08	1/8	2/3	43/1	5932/8	1000
4*185	4*350	37*2/48	2	2/5	47/4	7443	1000
3*25+16	3*4+6	7*2/12 7*1/70	1/2 -1	1/8	25/3	1427/8	1000
3*35+16	3*2+6	7*2/48 7*1/70	1/2-1/2	1/8	27/7	1775	1000
3*50+25	3*1+4	7*2/87 7*2/12	1/4-1/2	1/8	26/6	1832/7	1000
3*70+35	3*2/0+2	19*2/10 7*2/48	1/4-1/2	1/9	29/6	2529/1	1000
3*95+50	3*3/0+1	19*2/46 7*2/87	1/6-1/4	2/1	34/3	3413/3	1000
3*120+70	3*4/0+2/0	19*2/79 19*2/10	1/6-1/4	2/1	37/1	4550/5	1000
3*150+70	3*300+2/0	19*3/08 19*2/10	2-1/4	2/3	41/6	5257/2	1000
3*185+95	3*350+3/0	37*2/48 19*2/46	2-1/6	2/4	45/4	6568	1000
5*1.5	5*16	1*1/35	0/8	1/8	13/2	264/2	1000
5*2.5	5*14	1*1/74	0/8	1/8	14/2	334/5	1000
5*4	5*12	1*2/2	1	1/8	16/5	474/6	1000
5*6	5*10	1*2/7	1	1/8	17/9	602/6	1000
5*10	5*8	1*3/50	1	1/8	20/1	864/7	1000
5*16	5*6	7*1/70	1	1/8	24/4	1293/7	1000
5*25	5*4	7*2/12	1/2	1/9	29	1912	1000
5*35	5*2	7*2/48	1/2	2	32/1	2462.4	1000
5*50	5*1	19*1/74	1/4	2/1	36/9	3269/2	1000



NYY - FLEXIBLE

Power cable with copper conductor with voltage level of 0.6 / 1 KV

Power cable with flexible copper conductor with voltage level of 0.6 / 1 KV according to IEC 60502-1 standard with 1 to 5 core in the cross section of 1.5 mm² to 1000 mm². In designing 4-strand cables, according to the application according to the mentioned standard, we are allowed to use a strand with a smaller cross-section, which in the term are called three-and-a-half-strand cables.

For example, 3 * 35 + 16 cable

Feature Code Naming according to VDE standard type : **NYY - Flexible**

Structure

CU/PVC/PVC

CU/PVC/ FILLER (inner covering) / PVC

Conductor: Plain annealed copper conductor according to ASTM B3

Class 5 - Flexible conductors

Insulation : PVC type A (70 °c)

Colors for core identification

Twin: blue & black

3-core: blue & black & (yellow or green/yellow)

4-core: blue & brown & black & (yellow or green/yellow)

5-core: blue & brown & black & red & (yellow or green/yellow)

Filler : Extruded PVC / P.P Tape (For round shaped conductor)

Over-Sheath : PVC type ST1 (70 °c)

Colors for sheath : black

Application:

These cables are used for low voltage distribution lines up to 1000 volts in commercial and industrial residential centers and their installation is inside or outside the building, canals and basements and places where there is no possibility of mechanical shocks.

NYY - FLEXIBLE

Power cable with Flexible copper conductor with voltage level of 0.6 / 1 KV

NYY- FLEXIBLE		IEC 60502-1 (0.6/1 KV)					
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
1*10	8	80*0.386	1.05	1.4	8.9	112.3	1000
1*16	6	125*0.386	1.05	1.4	9.9	169	1000
1*25	4	194*0.386	1.2	1.4	11.4	257.9	1000
1*35	2	272*0.386	1.2	1.4	12.6	351.8	1000
1*50	1	390*0.386	1.4	1.4	14.4	501.7	1000
1*70	2/0	555*0.386	1.4	1.4	16.1	696.9	1000
1*95	3/0	730*0.386	1.6	1.4	18.1	916.3	1000
1*120	4/0	560*0.50	1.6	1.6	20.0	1285.8	1000
1*150	300	700*0.50	1.8	1.7	22.1	1596.3	1000
1*185	350	853*0.50	2	1.7	24.3	1935.1	1000
1*240	500	1127*0.50	2.2	1.8	27.4	2523.8	1000
1*300	600	1410*0.50	2.4	1.9	30.3	3131.6	1000

NYY - FLEXIBLE

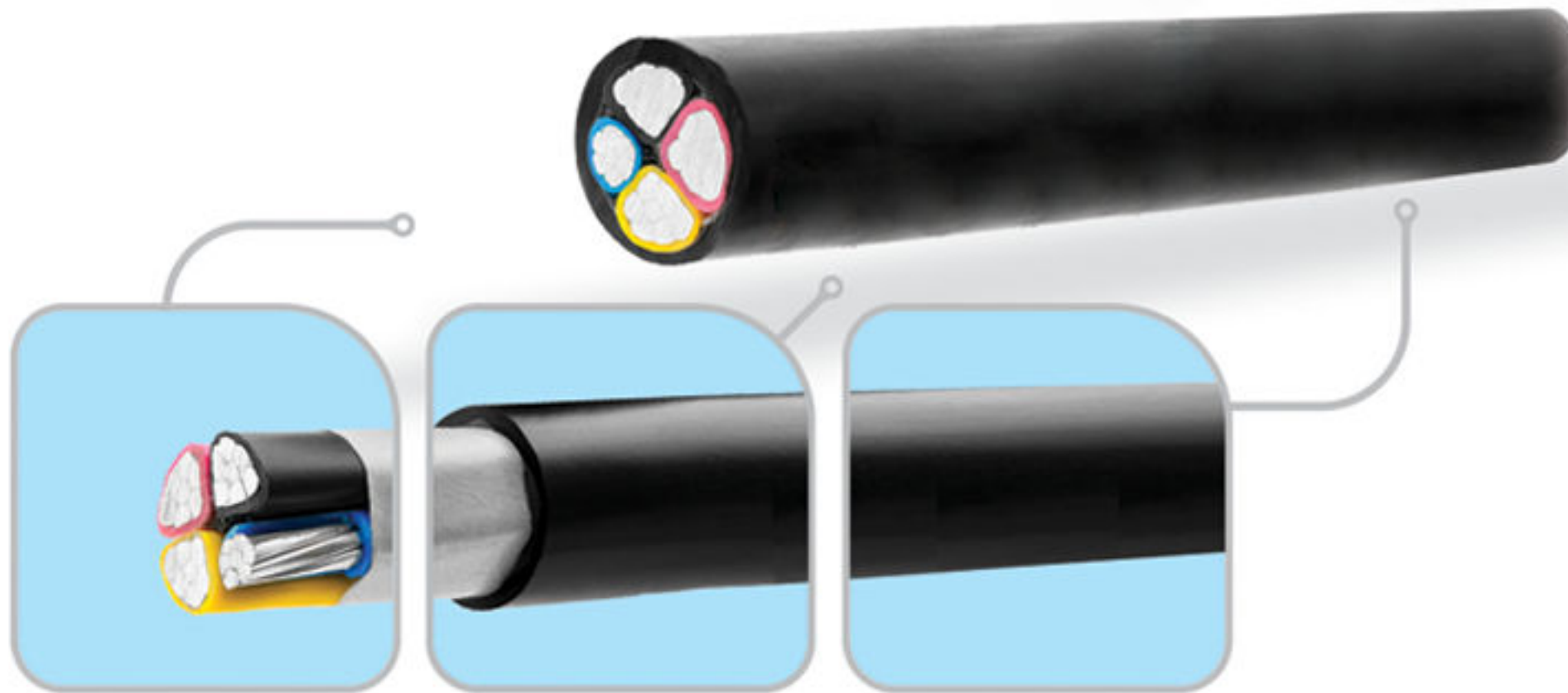
Power cable with Flexible copper conductor with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	Mm	mm	mm	Kg/Km	m
2*1.5	2*16	30*0.24	0.8	1.8	11.1	172.5	100
2*2.5	2*14	50*0.24	0.8	1.8	11.9	208.8	100
2*4	2*12	56*0.29	1	1.8	13.6	284.6	100
2*6	2*10	83*0.29	1	1.8	14.6	348.3	100
2*10	2*8	80*0.39	1.05	1.8	16.2	467.5	100
2*16	2*6	125*0.39	1.05	1.8	19.4	693.7	1000
2*25	2*4	194*0.39	1.2	1.8	24.9	1012.2	1000
2*35	2*2	272*0.39	1.2	1.8	24.9	1249.4	1000
3*1.5	3*16	30*0.24	0.8	1.8	11.6	195.1	100
3*2.5	3*14	50*0.24	0.8	1.8	12.4	241.0	100
3*4	3*12	56*0.29	1	1.8	14.3	333.6	100
3*6	3*10	83*0.29	1	1.8	15.4	415.6	100
3*10	3*8	80*0.39	1.05	1.8	17.1	570.8	100
3*16	3*6	125*0.39	1.05	1.8	20.5	856.0	1000
3*25	3*4	194*0.39	1.2	1.8	24.1	1241.0	1000
3*35	3*2	272*0.39	1.2	1.8	26.4	1575.6	1000
3*50	3*1	390*0.386	1.4	1.9	30.3	2089.1	1000
3*70	3*2/0	555*0.386	1.4	2.1	34.5	2858.4	1000
3*95	3*3/0	730*0.386	1.6	2.2	39.5	3841.0	1000
4*1.5	4*16	30*0.24	0.8	1.8	12.3	227.9	100
4*2.5	4*14	50*0.24	0.8	1.8	13.3	285.5	100
4*4	4*12	56*0.29	1	1.8	15.4	400.6	1000
4*6	4*10	83*0.29	1	1.8	16.6	504.8	1000
4*10	4*8	80*0.39	1.05	1.8	18.5	703.4	1000

NYY - FLEXIBLE

Power cable with Flexible copper conductor with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	Mm	mm	mm	Kg/Km	m
4*16	4*6	125*0.39	1.05	1.8	22.4	1064.3	1000
4*25	4*4	194*0.39	1.2	1.8	29.2	1578.2	1000
4*35	4*2	272*0.39	1.2	1.9	29.2	1998.7	1000
4*50	4*1	390*0.386	1.4	1.8	27.5	2017.0	1000
4*70	4*2/0	555*0.386	1.4	2.0	31.7	2800.4	1000
4*95	4*3/0	730*0.386	1.6	2.1	36.0	3800.4	1000
4*120	4*4/0	560*0.50	1.6	2.2	39.0	4789.8	1000
4*150	4*300	700*0.50	1.8	2.3	43.1	5832.6	1000
4*185	4*350	853*0.50	2	2.5	47.4	7316.5	1000
3*25+16	3*4+6	194*0.39 125*0.39	1.2 – 1.05	1.8	25.3	1412	1000
3*35+16	3*2+6	272*0.39 125*0.39	1.2 – 1.05	1.8	27.7	1754.1	1000
3*50+25	3*1+4	390*0.386 194*0.39	1.4 – 1.2	1.8	26.6	1804.3	1000
3*70+35	3*2/0+2	555*0.386 272*0.39	1.4 – 1.2	1.9	29.6	2488.2	1000
3*95+50	3*3/0+1	730*0.386 390*0.386	1.6 – 1.4	2.1	34.3	3357.4	1000
3*120+70	3*4/0+2/0	560*0.50 555*0.386	1.6 – 1.4	2.1	37.1	4292.2	1000
3*150+70	3*300+2/0	700*0.50 555*0.386	1.8 – 1.4	2.3	41.6	5170.4	1000
3*185+95	3*350+3/0	853*0.50 730*0.386	2 – 1.6	2.4	45.4	6457.1	1000
5*1.5	5*16	30*0.24	0.8	1.8	13.2	264.2	100
5*2.5	5*14	50*0.24	0.8	1.8	14.2	334.5	100
5*4	5*12	56*0.29	1	1.8	16.5	474.6	1000
5*6	5*10	83*0.29	1	1.8	17.9	602.6	1000
5*10	5*8	80*0.39	1.05	1.8	20.1	846.7	1000
5*16	5*6	125*0.39	1.05	1.8	24.4	1279.6	1000
5*25	5*4	194*0.39	1.2	1.9	29.0	1890.1	1000
5*35	5*2	272*0.39	1.2	2.0	32.1	2432.6	1000
5*50	5*1	390*0.386	1.4	2.1	36.9	3229.3	1000



NAYY

Power cable with Aluminum conductor with voltage level of 0.6 / 1 KV

Power cable with solid or stranded Aluminum conductor with voltage level of 0.6 / 1 KV according to IEC 60502-1 standard with 1 to 5 core in the cross section of 16 mm² to 1000 mm²

In designing 4-strand cables, according to the application according to the mentioned standard, we are allowed to use a strand with a smaller cross-section, which in the term are called three-and-a-half-strand cables

For example, 3 * 35 + 16 cable

In this type of cables, from the cross section of 16 and above compacted conductor and from the cross section of 50 and above, Sector conductor can be used for 3 phase wires.

Feature Code Naming according to VDE standard type : NAYY

Structure

AL/PVC/ FILLER (inner covering) / PVC

Conductor: Aluminum conductor according to ASTM B3

Class 1 - Solid conductors (re) or class 2 - Stranded conductor (rm)

Insulation : PVC type A (70 °c)

Colors for core identification

Twin: blue & black

3-core: blue & black & yellow

4-core: blue & brown & black & yellow

5-core: blue & brown & black & red & yellow

Filler : Extruded PVC / PP Tape

Over-Sheath : PVC type ST1 (70 °c)

Colors for sheath : black

Application:

These cables are used for low voltage distribution lines up to 1000 volts in commercial and industrial residential centers and their installation is inside or outside the building, canals and basements and places where there is no possibility of mechanical shocks.

NAYY

Power cable with Aluminum conductor with voltage level of 0.6 / 1 KV

NAYY IEC 60502-1 (0.6/1 KV)							
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
1*10	8	1*3.48	1	1.4	8.3	91.5	1000
1*16	6	7*1.68	1	1.4	9.7	124.0	1000
1*25	4	7*2.10	1.2	1.4	11.1	170.1	1000
1*35	2	7*2.48	1.2	1.4	11.9	206.3	1000
1*50	1	7*2.87	1.4	1.4	14.0	270.9	1000
1*70	2/0	19*2.10	1.4	1.44	15.4	348.8	1000
1*95	3/0	19*2.48	1.6	1.51	17.7	466.4	1000
1*120	4/0	19*2.77	1.6	1.56	19.2	554.0	1000
1*150	300	19*3.08	1.8	1.64	21.7	685.0	1000
1*185	350	37*2.48	2	1.70	23.3	832.8	1000
1*240	500	37*2.83	2.2	1.77	25.5	1044.0	1000
1*300	600	37*3.18	2.4	1.90	29.4	1316.8	1000

NAYY

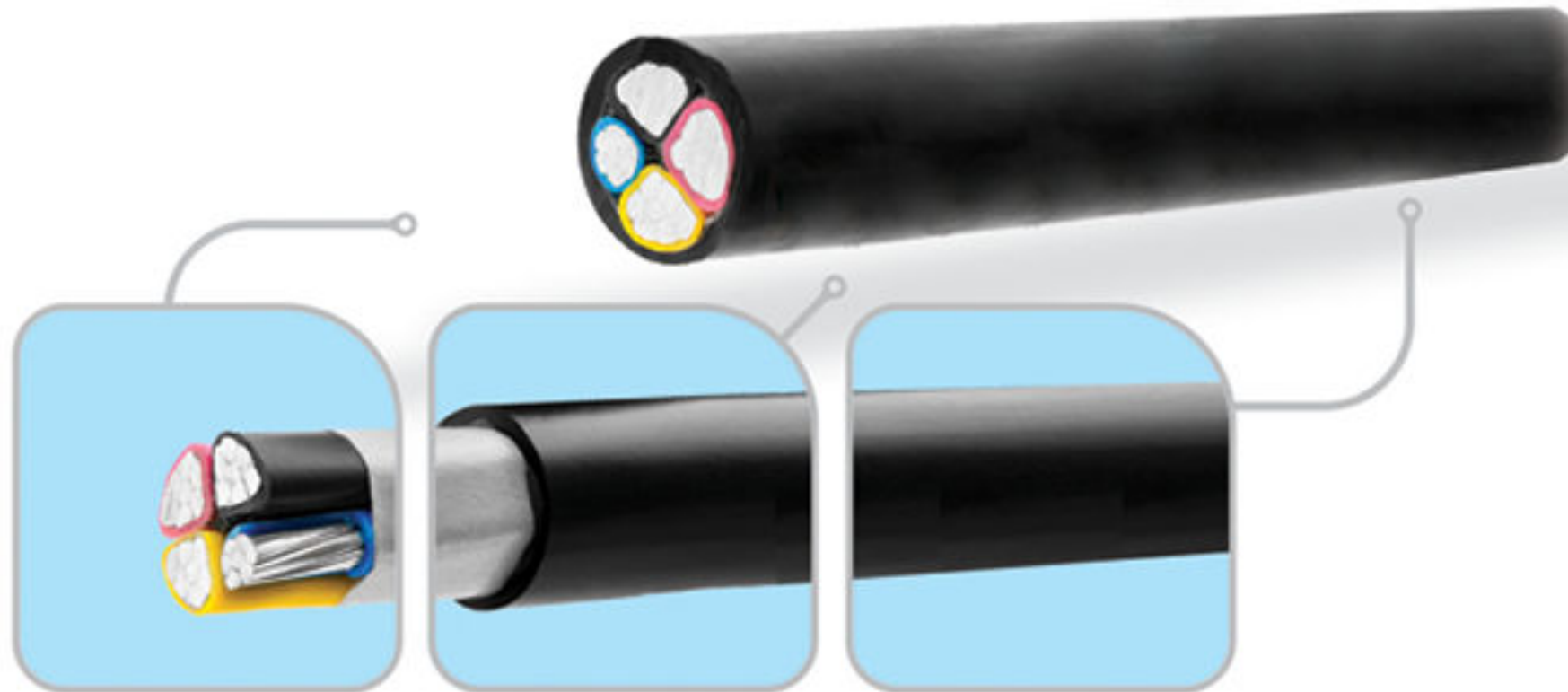
Power cable with Aluminum conductor with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
2*10	2*8	1*3.48	1	1.8	16/2	347.7	1000
2*16	2*6	7*1.68	1	1.8	19/4	476.1	1000
2*25	2*4	7*2.10	1.2	1.8	25/1	661.8	1000
2*35	2*2	7*2.48	1.2	1.9	25/1	778.3	1000
3*10	3*8	1*3.48	1	1.8	17/1	393.3	1000
3*16	3*6	7*1.68	1	1.8	20/5	538.8	1000
3*25	3*4	7*2.10	1.2	1.8	24/1	738.8	1000
3*35	3*2	7*2.48	1.2	1.7	26/4	879.3	1000
3*50	3*1	7*2.87	1.4	1.9	30/3	794.3	1000
3*70	3*2/0	19*2.10	1.4	2.0	34/5	1033.9	1000
3*95	3*3/0	19*2.48	1.6	2.1	39/5	1394.3	1000
4*10	4*8	3.48	1	1.8	18.5	466.9	1000
4*16	4*6	7*1.68	1	1.8	21.8	644.5	1000
4*25	4*4	7*2/10	1	1.8	20.6	438.4	1000
4*35	4*2	7*2/48	1.2	1.8	27.4	909.9	1000
4*50	4*1	7*2/87	1.2	1.9	27.4	1089.0	1000
4*70	4*2/0	19*2/10	1.4	1.8	27.5	893.0	1000
4*95	4*3/0	19*2/48	1.4	2.0	31.7	1201.9	1000
4*120	4*4/0	19*2/77	1.6	2.1	36.0	1623.2	1000
4*150	4*300	19*3/08	1.6	2.2	39.0	1949.9	1000
4*185	4*350	37*2/48	1.8	2.3	43.1	2394.1	1000
3*25+16	3*4+6	7*2/10 7*1/68	1/2 -1	1/8	24/5	818/9	1000
3*35+16	3*2+6	7*2/48 7*1/68	1/2-1/2	1/8	26/1	975	1000
3*50+25	3*1+4	7*2/87 7*2/10	1/4-1/2	1/8	26/6	825/5	1000
3*70+35	3*2/0+2	19*2/10 7*2/48	1/4-1/2	1/9	29/6	1080/7	1000

NAYY

Power cable with Aluminum conductor with voltage level of 0.6 / 1 KV

NAYY IEC 60502-1 (0.6/1 KV)							
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
3*95+50	3*3/0+1	19*2/46 7*2/87	1/6-1/4	2/1	34/3	1437/2	1000
3*120+70	3*4/0+2/0	19*2/79 19*2/10	1/6-1/4	2/1	37/1	1961/4	1000
3*150+70	3*300+2/0	19*3/08 19*2/10	2-1/4	2/3	41/6	2191/9	1000
3*185+95	3*350+3/0	37*2/48 19*2/46	2-1/6	2/4	45/4	2652/7	1000
5*10	5*8	1*3/48	1	1.8	20.0	551.2	1000
5*16	5*6	7*1/68	1	1.8	23.7	766.7	1000
5*25	5*4	7*2/12	1.2	1.8	27.7	1074.0	1000
5*35	5*2	7*2/48	1.2	1.9	30.0	1311.2	1000
5*50	5*1	19*1/74	1.4	2.1	35.9	1803.5	1000



NA2XY

Power cable with Aluminum conductor & XLPE Insulation with voltage level of 0.6 / 1 KV

Power cable with solid or stranded Aluminum conductor & XLPE Insulation with voltage level of 0.6 / 1 KV according to IEC 60502-1 standard with 1 to 5 core in the cross section of 16 mm² to 1000 mm².

In designing 4-strand cables, according to the application according to the mentioned standard, we are allowed to use a strand with a smaller cross-section, which in the term are called three-and-a-half-strand cables

For example, 3 * 35 + 16 cable

In this type of cables, from the cross section of 16 and above compacted conductor and from the cross section of 50 and above, Sector conductor can be used for 3 phase wires.

Feature Code Naming according to VDE standard type : NA2XY

Structure

AL/PVC/ FILLER (inner covering) / PVC

Conductor: Aluminum conductor according to ASTM B3

Class 2 - Stranded conductor (rm)

Insulation : PVC type A (70 °c)

Colors for core identification

Twin: blue & black

3-core: blue & black & yellow

4-core: blue & brown & black & yellow

5-core: blue & brown & black & red & yellow

Filler : Extruded PVC / P.P Tape

Over-Sheath : PVC type ST1 (70 °c)

Colors for sheath : black

Application:

These cables are used for low voltage distribution lines up to 1000 volts in commercial and industrial residential centers and their installation is inside or outside the building, canals and basements and places where there is no possibility of mechanical shocks.

NA2XY

Power cable with Aluminum conductor & XLPE Insulation with voltage level of 0.6 / 1 KV

NA2XY		IEC 60502-1 (0.6/1 KV)					
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
1*10	8	1*3.48	0.7	1.4	7.7	75.2	1000
1*16	6	7*1.68	0.7	1.4	9.1	103.2	1000
1*25	4	7*2.10	0.9	1.4	10.5	143	1000
1*35	2	7*2.48	0.9	1.4	11.3	176.2	1000
1*50	1	7*2.87	1	1.40	13.2	226.7	1000
1*70	2/0	19*2.10	1.1	1.42	14.8	301.6	1000
1*95	3/0	19*2.48	1.1	1.48	16.7	394.1	1000
1*120	4/0	19*2.77	1.2	1.54	18.4	480.5	1000
1*150	300	19*3.08	1.4	1.62	20.8	595	1000
1*185	350	37*2.48	1.6	1.67	22.4	728.1	1000
1*240	500	37*2.83	1.7	1.74	24.5	911.1	1000
1*300	600	37*3.18	1.8	1.85	28.1	1143.0	1000

NA2XY

Power cable with Aluminum conductor & XLPE Insulation with voltage level of 0.6 / 1 KV

Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
2*10	2*8	1*3.48	0.7	1.8	15.0	290.6	1000
2*16	2*6	7*1.68	0.7	1.8	17.7	407.3	1000
2*25	2*4	7*2.10	0.9	1.8	22.2	574.6	1000
2*35	2*2	7*2.48	0.9	1.9	22.2	674.4	1000
3*10	3*8	1*3.48	0.7	1.8	15.7	325.4	1000
3*16	3*6	7*1.68	0.7	1.8	18.7	456.4	1000
3*25	3*4	7*2.10	0.9	1.8	21.8	634.6	1000
3*35	3*2	7*2.48	0.9	1.7	23.6	772.1	1000
3*50	3*1	7*2.87	1	1.9	27.6	1025	1000
3*70	3*2/0	19*2.10	1.1	2.0	31.3	1362.1	1000
3*95	3*3/0	19*2.48	1.1	2.1	35.4	1770.2	1000
4*10	4*8	1* 3.48	0.7	1.8	17.0	380.8	1000
4*16	4*6	7*1.68	0.7	1.8	20.3	541.8	1000
4*25	4*4	7*2/10	0.9	1.8	25.7	776.7	1000
4*35	4*2	7*2/48	0.9	1.8	25.7	930.3	1000
4*50	4*1	7*2/87	1	1.8	26.6	783.9	1000
4*70	4*2/0	19*2/10	1.1	2.0	31.1	1089.1	1000
4*95	4*3/0	19*2/48	1.1	2.1	35.0	1447.8	1000
4*120	4*4/0	19*2/77	1.2	2.2	38.2	1772.1	1000
4*150	4*300	19*3/08	1.4	2.3	42.2	2179.4	1000
4*185	4*350	37*2/48	1.6	2.5	46.5	2716.6	1000
3*25+16	3*4+6	7*2/10 7*1/68	0/9-0/7	1/8	23	667/4	1000
3*35+16	3*2+6	7*2/48 7*1/68	0/9-0/7	1/8	24/4	788	1000
3*50+25	3*1+4	7*2/87 7*2/10	1-0/9	1/8	25/8	716/8	1000
3*70+35	3*2/0+2	19*2/10 7*2/48	1/1-0/9	1/9	29	969/3	1000

NA2XY

Power cable with Aluminum conductor & XLPE Insulation with voltage level of 0.6 / 1 KV

NA2XY IEC 60502-1 (0.6/1 KV)							
Wire size conductor		structure	Insulation Thickness	Jacket Thickness	Overall Diameter	Weight	Standard Packing Length
mm ²	AWG	NO. *mm ²	mm	mm	mm	Kg/Km	m
3*95+50	3*3/0+1	19*2/46 7*2/87	1/1-1	2	33/2	1274/9	1000
3*120+70	3*4/0+2/0	19*2/79 19*2/10	1/2-1/1	2/1	36/2	1227/7	1000
3*150+70	3*300+2/0	19*3/08 19*2/10	1/4-1/1	2/3	40/3	1935/5	1000
3*185+95	3*350+3/0	37*2/48 19*2/46	1/6-1/1	2/4	44/6	2411/7	1000
5*10	5*8	1*3/48	0.7	1.8	18.4	446.6	1000
5*16	5*6	7*1/68	0.7	1.8	22.1	641.4	1000
5*25	5*4	7*2/12	0.9	1.8	26.0	906.4	1000
5*35	5*2	7*2/48	0.9	1.9	28.3	1127.5	1000
5*50	5*1	19*1/74	1	2.0	33.6	1524.8	1000

DATA CABLE

- CAT 6 (U/UTP – F/UTP – SF/UTP)



AFLAK ELECTRIC KHORASAN

www.aflakelectric.com
info@flakelectric.com



CAT 6

Data cable

Data cable with solid copper conductor according to EIA/TIA 568.B.2 standard with 4 pair in the cross section of 23 – 24 AWG

Different types of network cables are categorized according to the speed of data transfer and their structure

Feature Code Naming according to VDE standard type : (U/UTP – F/UTP – SF/UTP)

Structure

CU/PE Compound/(screen/ Shield)/PVC OR PE OR HFFR

Conductor: Copper conductor according to ASTM B3

Class 1 - Solid conductor

Insulation : PE Compound

Colors for core identification

Pair 1: blue /White - Blue

Pair 2: Orange /White - Orange

Pair 3: Green /White - Green

Pair 4: Brown /White - Brown

Lay up : Pairs stranded in layers with star filler

Screen : Drain wire and AL-pes foil

Shield : Plain annealed copper wire braid

Over-Sheath : PVC & HFFR For Indoor and PE For Outdoor (70 °c)

Colors for sheath : blue / orange / purple

Application:

These cables can be used to implement services such as Fast Ethernet, Ethernet, ATM networks, FDDI, ISDN, absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application.

In tight cable channels and platforms due to their optimized construction.



Cable ID: AFLAK ELECTRIC KH. S/FTP

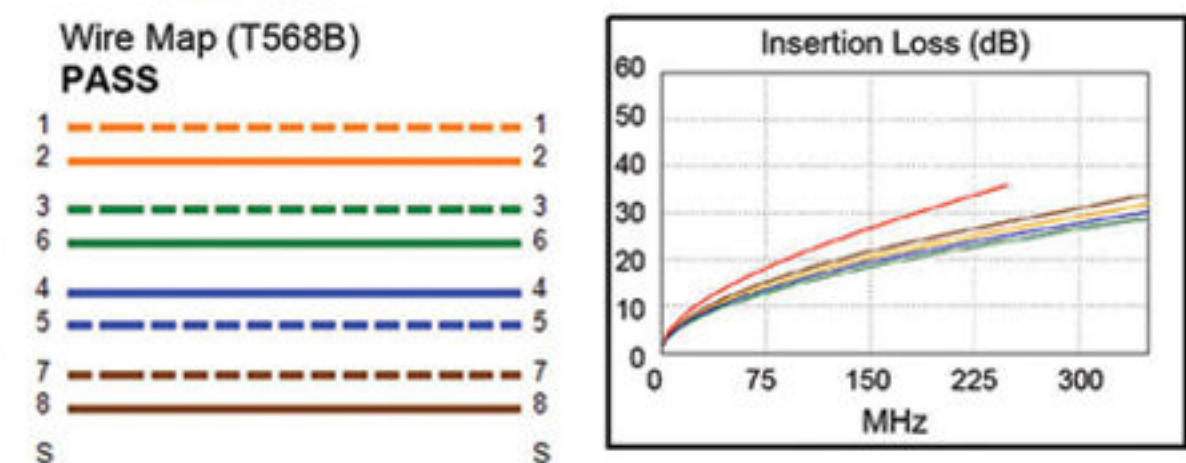
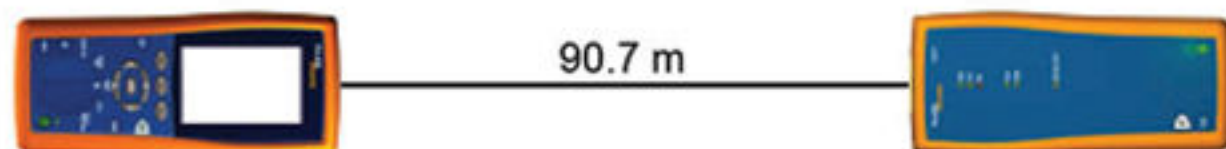
Test Summary: PASS

Date / Time: 10/12/2020 10:24:48 AM
Headroom 2.0 dB (NEXT 4,5-7,8)
Test Limit: TIA Cat 6 Channel
 Cable Type: Cat 6 SF/UTP
 NVP: 70.0%

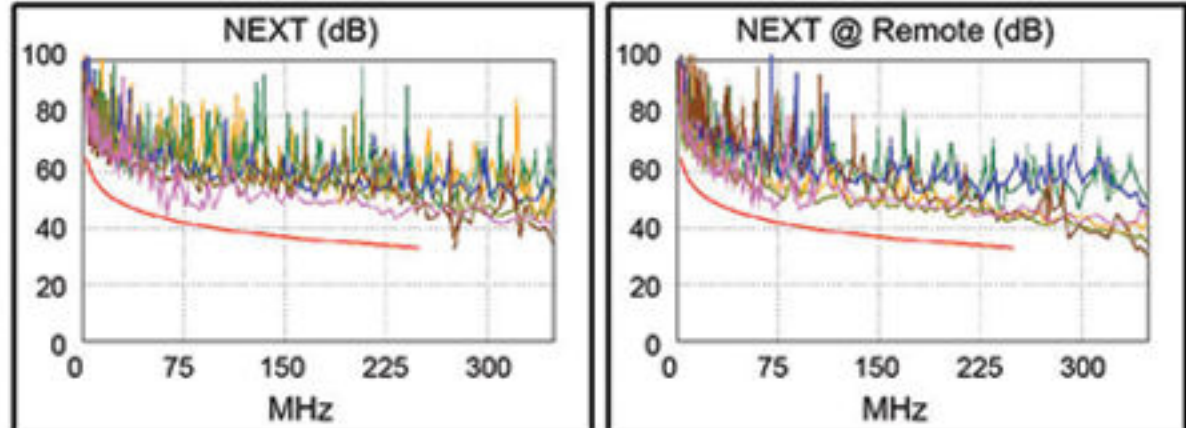
Operator: AKBARIAN
 Software Version: 2.7800
 Limits Version: 1.9500
 Calibration Date:
 Main (Tester): 05/15/2017
 Remote (Tester): 05/15/2017

Model: DTX-1800
 Main S/N: 1379371
 Remote S/N: 1379372
 Main Adapter: DTX-CHA002
 Remote Adapter: DTX-CHA002

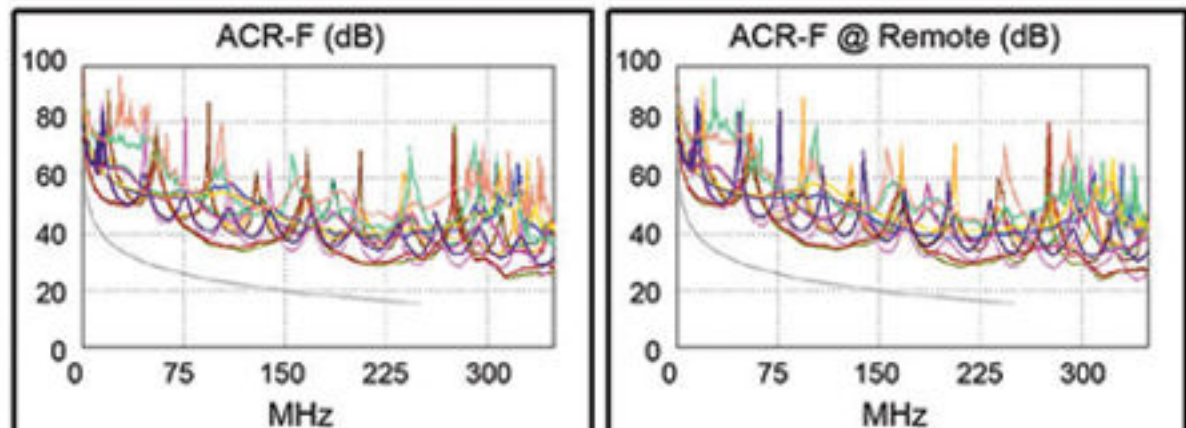
Length (m), Limit 100.0	[Pair 3,6]	90.7
Prop. Delay (ns), Limit 555	[Pair 7,8]	465
Delay Skew (ns), Limit 50	[Pair 7,8]	33
Resistance (ohms)	[Pair 1,2]	13.6
Insertion Loss Margin (dB)	[Pair 7,8]	7.8
Frequency (MHz)	[Pair 7,8]	250.0
Limit (dB)	[Pair 7,8]	35.9



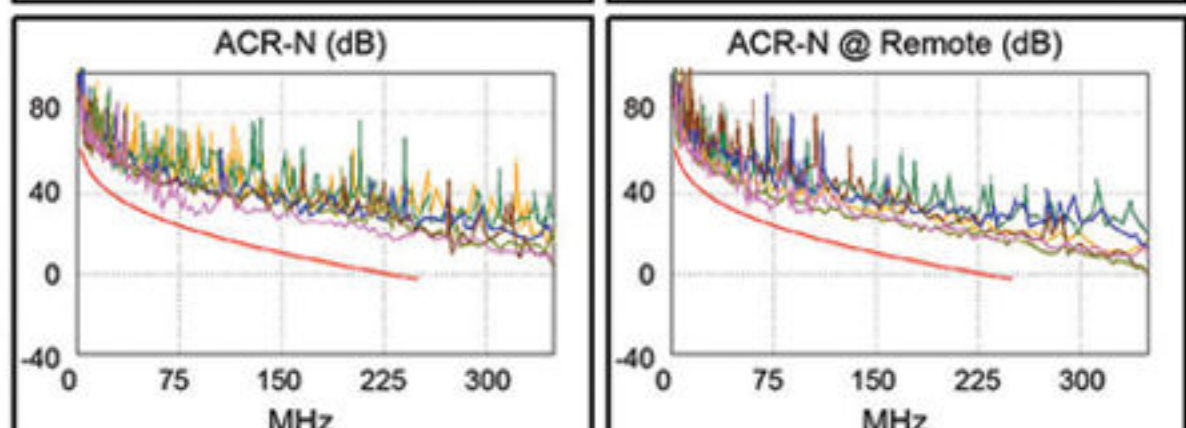
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	3,6-4,5
NEXT (dB)	2.0	3.7	9.8	8.7
Freq. (MHz)	63.0	71.3	232.0	238.5
Limit (dB)	43.3	42.4	33.7	33.5
Worst Pair	4,5	7,8	7,8	3,6
PS NEXT (dB)	4.6	5.6	11.8	8.4
Freq. (MHz)	63.0	71.3	232.0	242.0
Limit (dB)	40.5	39.6	30.7	30.4



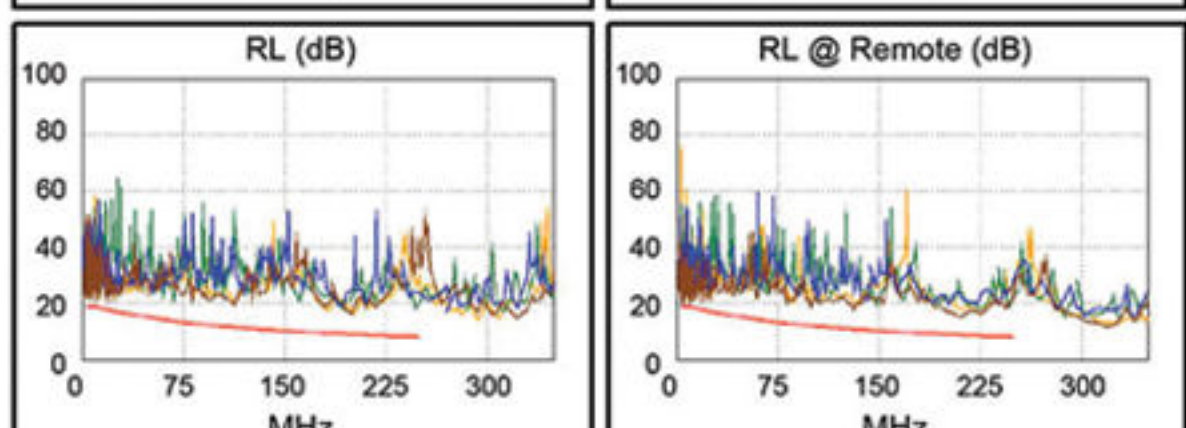
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-F (dB)	11.0	11.1	12.3	11.6
Freq. (MHz)	2.4	3.6	215.5	210.5
Limit (dB)	55.7	52.1	16.6	16.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	12.4	12.1	14.7	12.6
Freq. (MHz)	1.4	2.5	214.5	215.0
Limit (dB)	57.5	52.3	13.6	13.6



	MAIN	SR	MAIN	SR
N/A				
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	3,6-7,8
ACR-N (dB)	4.6	6.6	17.1	16.7
Freq. (MHz)	63.0	71.3	232.0	245.5
Limit (dB)	26.8	24.7	-0.7	-2.3
Worst Pair	7,8	7,8	7,8	7,8
PS ACR-N (dB)	7.4	8.5	19.1	17.7
Freq. (MHz)	63.0	71.3	232.0	244.0
Limit (dB)	24.0	21.9	-3.7	-5.1



	MAIN	SR	MAIN	SR
PASS				
Worst Pair	7,8	7,8	1,2	7,8
RL (dB)	3.7	3.2	7.0	6.4
Freq. (MHz)	4.9	3.8	201.0	211.0
Limit (dB)	19.0	19.0	9.0	8.8



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 ATM-25 ATM-51 ATM-155
 100VG-AnyLan TR-4 TR-16 Active
 TR-16 Passive



Cable ID: AFLAK PER 99/06/01

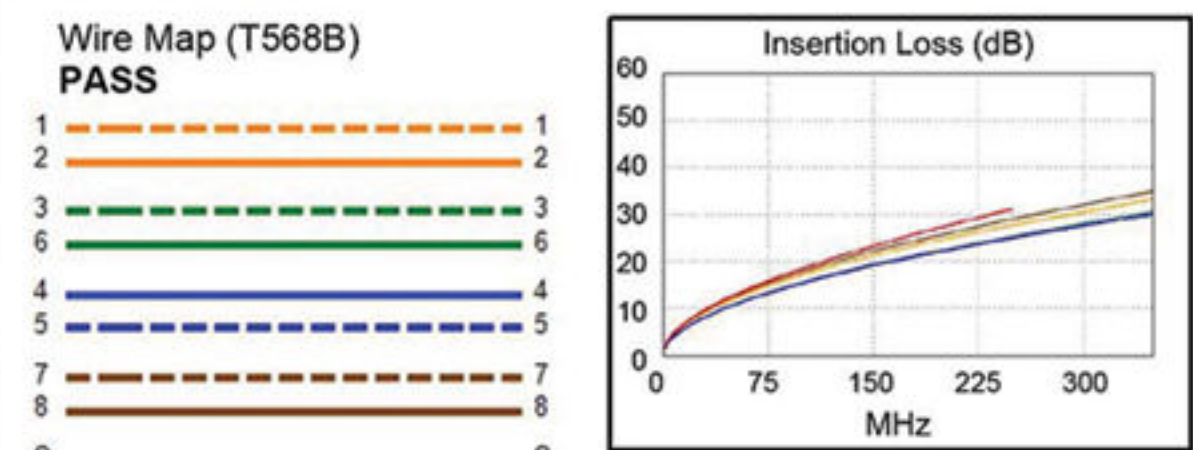
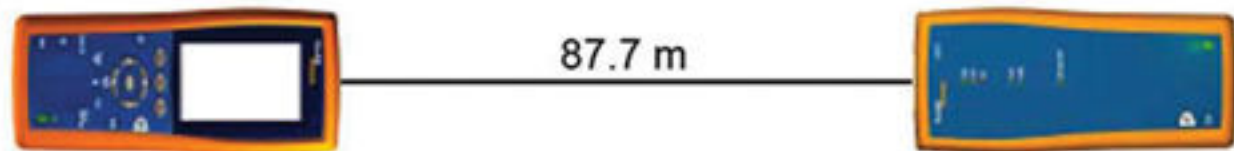
Test Summary: PASS

Date / Time: 08/22/2020 05:26:28 PM
Headroom 7.5 dB (NEXT 3,6-4,5)
Test Limit: TIA Cat 6 Perm. Link
 Cable Type: Cat 6 U/UTP
 NVP: 69.0%

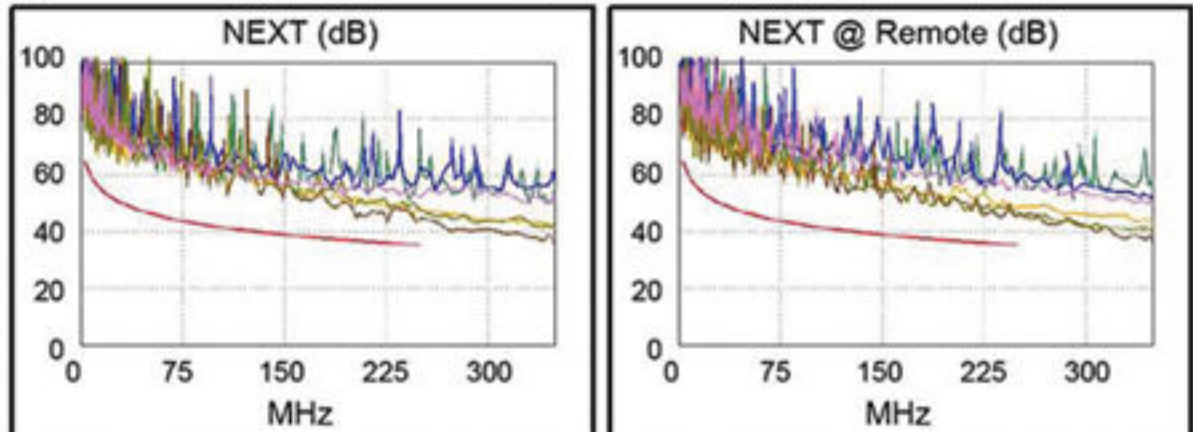
Operator: AKBARIAN
 Software Version: 2.7800
 Limits Version: 1.9500
 Calibration Date:
 Main (Tester): 05/15/2017
 Remote (Tester): 05/15/2017

Model: DTX-1800
 Main S/N: 1379371
 Remote S/N: 1379372
 Main Adapter: DTX-PLA002
 Remote Adapter: DTX-PLA002

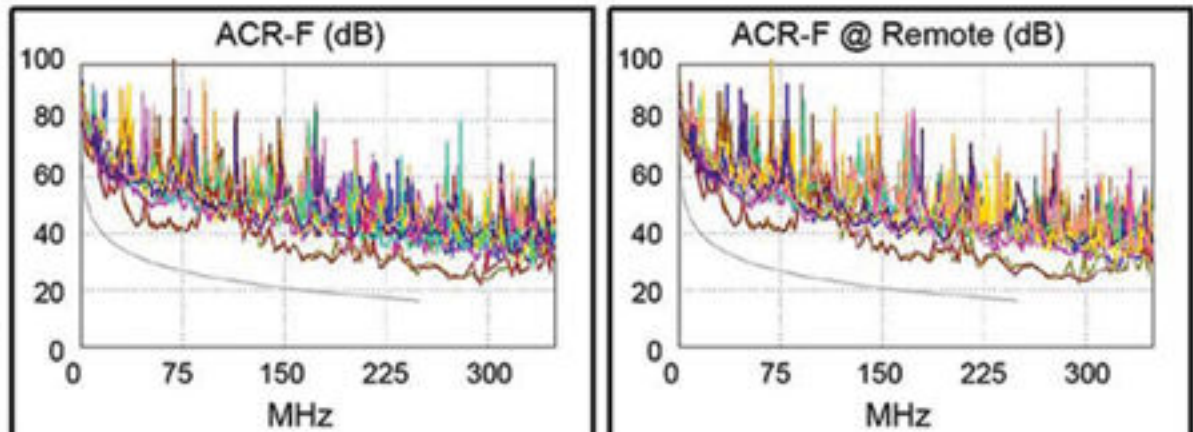
Length (m), Limit 90.0	[Pair 3,6]	87.7
Prop. Delay (ns), Limit 498	[Pair 7,8]	455
Delay Skew (ns), Limit 44	[Pair 7,8]	31
Resistance (ohms)	[Pair 7,8]	12.3
Insertion Loss Margin (dB)	[Pair 7,8]	2.1
Frequency (MHz)	[Pair 7,8]	250.0
Limit (dB)	[Pair 7,8]	31.1



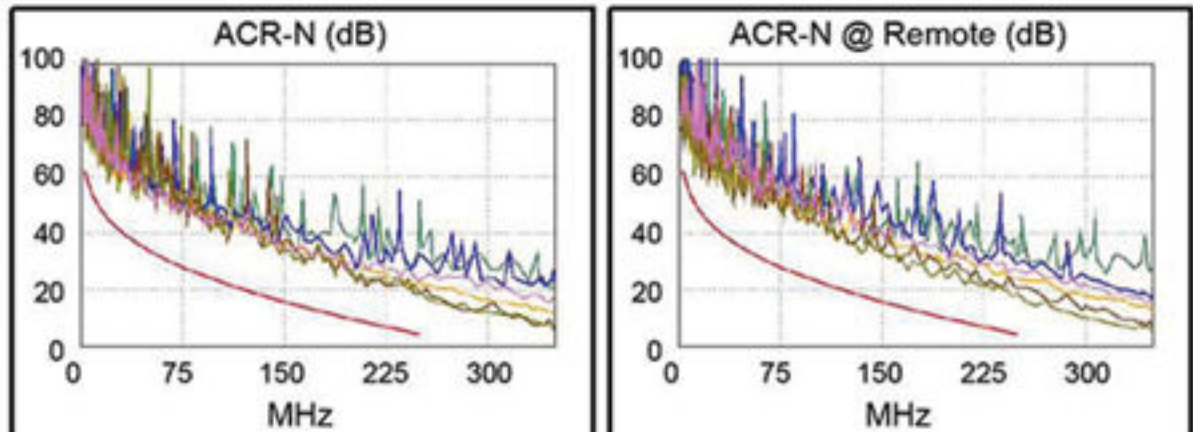
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	7.5	9.0	7.7	9.0
Freq. (MHz)	210.5	238.0	246.0	238.0
Limit (dB)	36.6	35.7	35.5	35.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.0	9.1	8.0	9.1
Freq. (MHz)	246.5	248.5	246.5	248.5
Limit (dB)	32.8	32.7	32.8	32.7



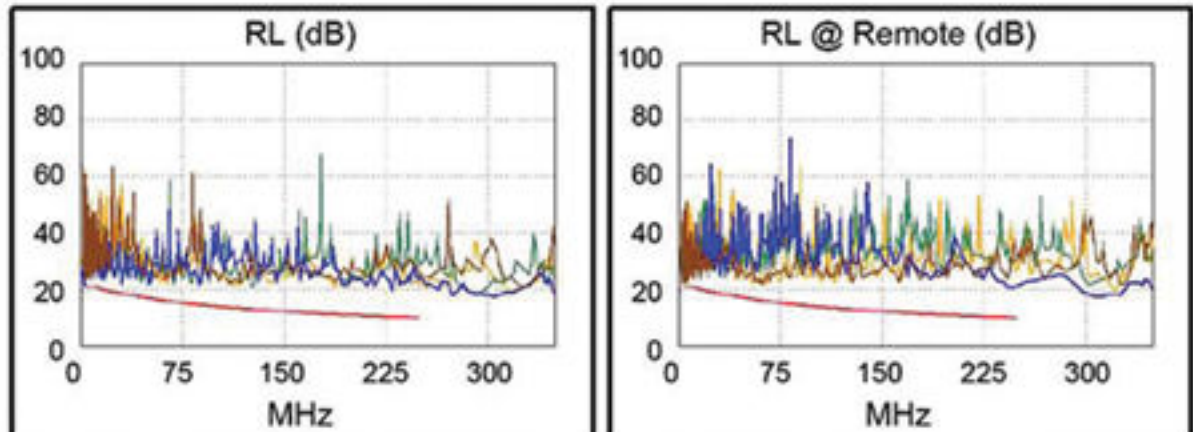
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	9.2	8.9	9.2	8.9
Freq. (MHz)	248.0	248.0	248.0	248.0
Limit (dB)	16.3	16.3	16.3	16.3
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	12.1	12.1	12.1	12.1
Freq. (MHz)	248.0	248.0	248.0	248.0
Limit (dB)	13.3	13.3	13.3	13.3



	MAIN	SR	MAIN	SR
N/A				
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-7,8
ACR-N (dB)	12.9	10.3	14.0	13.3
Freq. (MHz)	210.5	3.5	248.5	247.0
Limit (dB)	8.4	61.7	4.4	4.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	13.6	12.5	13.7	14.8
Freq. (MHz)	226.0	3.4	246.5	248.5
Limit (dB)	4.1	58.8	2.0	1.8



	MAIN	SR	MAIN	SR
PASS				
Worst Pair	7,8	7,8	4,5	4,5
RL (dB)	4.4	3.8	9.6	10.1
Freq. (MHz)	3.6	7.0	230.0	245.5
Limit (dB)	21.0	21.0	10.4	10.1



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 ATM-25 ATM-51 ATM-155
 100VG-AnyLan TR-4 TR-16 Active
 TR-16 Passive



Cable ID: AFLAK ELECTERIC KHORASAN.

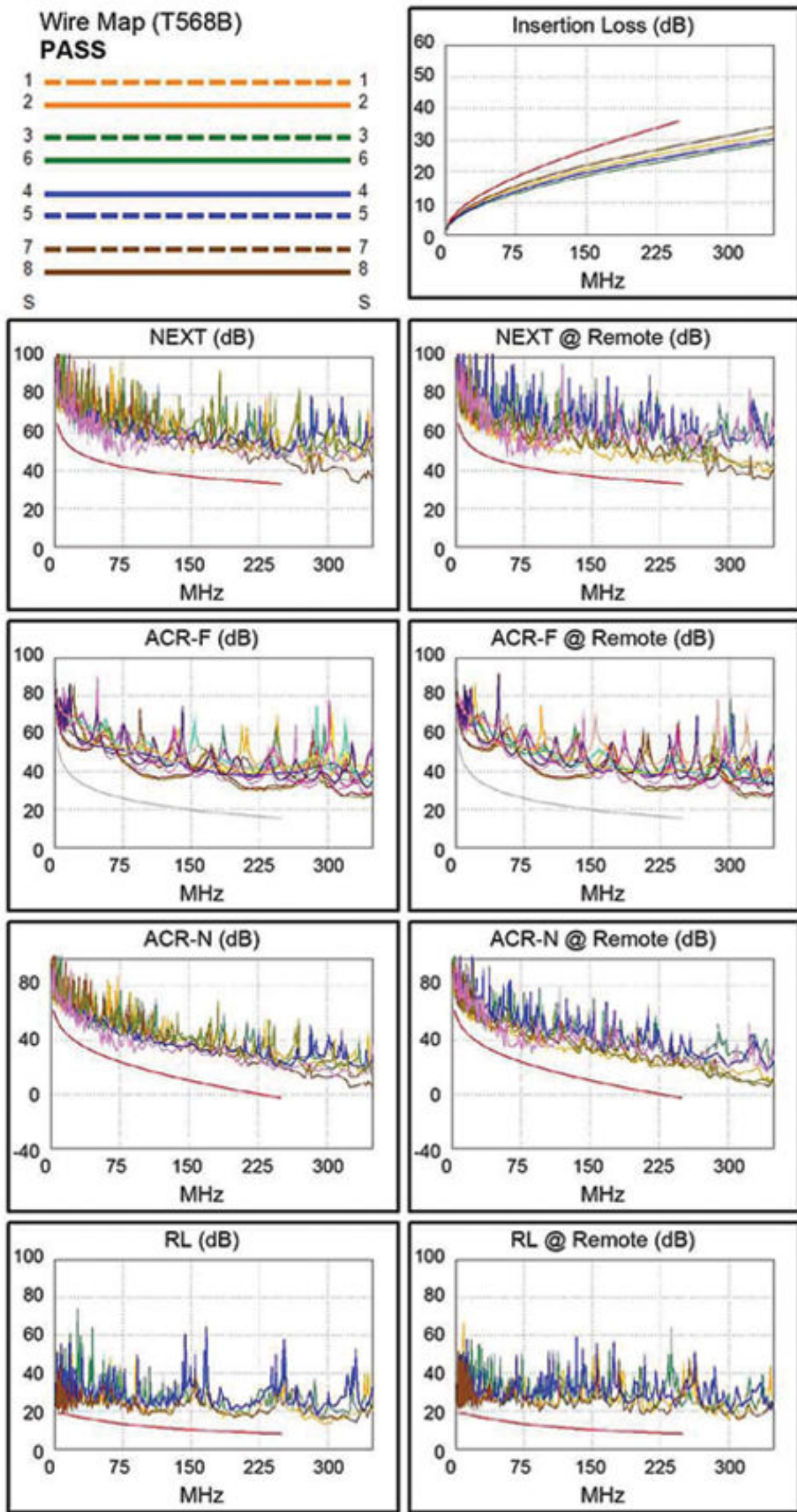
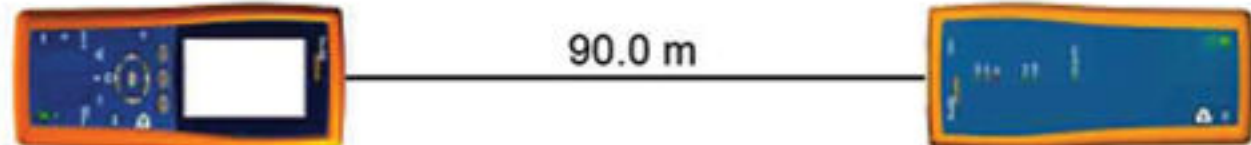
Test Summary: PASS

Date / Time: 08/03/2020 09:53:40 AM
Headroom 4.2 dB (NEXT 4,5-7,8)
Test Limit: TIA Cat 6 Channel
 Cable Type: Cat 6 U/UTP
 NVP: 69.0%

Operator: AKBARIAN
 Software Version: 2.7800
 Limits Version: 1.9500
 Calibration Date:
 Main (Tester): 05/15/2017
 Remote (Tester): 05/15/2017

Model: DTX-1800
 Main S/N: 1379371
 Remote S/N: 1379372
 Main Adapter: DTX-CHA002
 Remote Adapter: DTX-CHA002

Length (m), Limit 100.0	[Pair 3,6]	90.0
Prop. Delay (ns), Limit 555	[Pair 7,8]	467
Delay Skew (ns), Limit 50	[Pair 7,8]	32
Resistance (ohms)	[Pair 7,8]	14.6
Insertion Loss Margin (dB)	[Pair 7,8]	7.5
Frequency (MHz)	[Pair 7,8]	250.0
Limit (dB)	[Pair 7,8]	35.9



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	4.6	4.2	9.7	10.0
Freq. (MHz)	70.8	63.0	214.0	232.0
Limit (dB)	42.5	43.3	34.3	33.7
Worst Pair	7,8	4,5	4,5	3,6
PS NEXT (dB)	7.1	6.8	11.7	9.7
Freq. (MHz)	70.8	63.0	243.0	216.0
Limit (dB)	39.7	40.5	30.4	31.3
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-F (dB)	12.3	12.3	14.0	13.9
Freq. (MHz)	3.6	4.9	230.0	230.0
Limit (dB)	52.1	49.5	16.0	16.0
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	14.3	14.2	16.1	15.4
Freq. (MHz)	2.5	2.6	220.0	246.0
Limit (dB)	52.3	51.9	13.4	12.4
N/A	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	3,6-7,8
ACR-N (dB)	7.3	6.7	19.7	19.3
Freq. (MHz)	70.8	63.0	242.5	224.5
Limit (dB)	24.9	26.8	-2.0	0.2
Worst Pair	7,8	7,8	7,8	1,2
PS ACR-N (dB)	9.8	9.4	20.9	21.9
Freq. (MHz)	70.8	63.0	242.5	250.0
Limit (dB)	22.1	24.0	-4.9	-5.8
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	7,8
RL (dB)	2.9	4.2	7.5	9.5
Freq. (MHz)	3.6	4.8	198.0	206.5
Limit (dB)	19.0	19.0	9.0	8.9

Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 ATM-25 ATM-51 ATM-155
 100VG-AnyLan TR-4 TR-16 Active
 TR-16 Passive

ABC CABLE

- Aerial Bundle Cables
- ACSR CABLE



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ABC CABLE

Aerial Bundle Cables, often referred to as Aerial Bundled Conductors or simply ABC, are cables for overhead line power; so called for combining multiple single core cables together.

LOW VOLTAGE ABC

Our Low Voltage ABC are manufactured in accordance with a range of national standards - British standard BS7870, French standard NF C33209, Australasian standard AS/NZS 3560-1, and IEC standards IEC 60502-1. They have a voltage rating of 0.6/1kV. With the insulation it also meets Class II according to IEC 61140 in protecting against electric shock. Aerial Bundle Cables have an operating temperature range of -40°C to +80°C and can be installed in temperatures as low as -20°C. These ABC are unscreened and without an additional outer sheath.

Voltage Rating U₀ /U: 0.6/1kV

Feature Code Naming according to VDE standard type : ABC

Structure:

AL/XLPE OR HDPE & MESSENGER WIRE (STEEL/XLPE OR HDPE)

Conductor :

Phase Conductor: Class 2 stranded Aluminum

Neutral Conductor: Class 2 stranded Aluminum

Messenger Conductor: Class 2 stranded galvanized steel messenger Conductor For 6-strand-ABC cables

Neutral & Messenger Conductor: Class 2 stranded Aluminum alloy for 5-strand ABC cables

Insulation : XLPE (Cross-linked polyethylene) compound TIX 2

Insulation Color: Black

Application:

For distribution low power overhead networks in metropolitan, urban and rural areas. For supply of remote.

Facilities and villages of temporary and permanent character. For above-ground house connections

ABC CABLE

Aerial Bundle Cables, often referred to as Aerial Bundled Conductors or simply ABC, are cables for overhead line power; so called for combining multiple single core cables together.

ABC CABLE - (0.6/1 KV)

Wire size conductor		structure				Standard Packing Length
		PHASE	NEUTRAL	LIGHTING	MESSENGER	
mm ²	AWG	mm	mm	mm	Kg/Km	m
1*16+16	1*6+6	7*1.70	7*1.70	-	-	1000
1*25+25	1*4+4	7*2.12	4*2.12	-	-	1000
1*35+35	1*2+2	7*2.20	7*2.20	-	-	1000
2*16+16	2*6+6	7*1.70	7*1.70	7*1.70	-	1000
2*25+16	2*4+6	7*2.12	7*2.12	7*1.70	-	1000
2*35+25	2*2+4	7*2.20	7*2.20	-	7*1.93	1000
25+25+16-16	4+4+6-6	7*2.12	7*2.12	7*1.70	7*1.57	1000
3*35+25-25	3*2+4-4	7*2.20	7*2.12	-	7*1.93	1000
3*35+35-25	3*2+2-4	7*2.20	7*2.20	-	7*1.93	1000
3*50+50-25	3*1+6+1	7*2.95	7*2.95	-	7*1.93	1000
3*35+25+16-25	3*2+4+6-4	7*2.20	7*2.12	7*1.70	7*1.93	1000
3*35+35+16-25	3*2+2+6-4	7*2.20	7*2.20	7*1.70	7*1.93	1000
3*35+35+25-25	3*2+2+4-4	7*2.20	7*2.20	7*2.12	7*1.93	1000
3*50+35+16-25	3*1+2+6-4	7*2.95	7*2.20	7*1.70	7*1.93	1000
3*50+35+25-25	3*1+2+4-4	7*2.95	7*2.20	7*2.12	7*1.93	1000
3*50+50+16-25	3*1+1+6-4	7*2.95	7*2.95	7*1.70	7*1.93	1000
3*50+50+25-25	3*1+1+4-4	7*2.95	7*2.95	7*2.12	7*1.93	1000
3*70+50+16-25	3*2/0+1+6-4	19*2.12	7*2.95	7*1.70	7*1.93	1000
3*70+70+16-25	3*2/0+2/0+6-4	19*2.12	19*2.12	7*1.70	7*1.93	1000
3*70+70+25-25	3*2/0+2/0+4-4	19*2.12	19*2.12	7*2.12	7*1.93	1000
3*95+70+25-25	3*3/0+2/0+4-4	19*2.50	19*2.12	7*2.12	7*1.93	1000
3*95+95+25-25	3*3/0+3/0+4-4	19*2.50	19*2.50	7*2.12	7*1.93	1000



ACSR CABLE

(Aluminum Conductor Steel Reinforced) ACSR is a high-capacity stranded conductor which is mainly used for overhead power lines. The ACSR conductor design can be done like this, the outside of this conductor can be made with pure aluminum material whereas the inside of the conductor is made with a steel material so that it gives extra strength to give support to the weight of the conductor. As compared with aluminum, steel material has high strength, so the mechanical force can be applied over the conductor. The service life of the steel material used in the conductor can be extended by galvanizing or coating with another material. So that corrosion on the material can be prevented. Based on the type of ACSR conductor, the diameters of the steel & aluminum can be changed.

ACSR Conductor Types

In energy transmission, copper conductors are used in many years back, but at present, Al conductors have replaced these copper conductors due to some reasons like not expensive as compared with copper, high diameter, etc. There are different types of ACSR conductors are available which include the following.

ACSR Conductor Types

- All Aluminum Conductor – AAC
- Aluminum Conductor Aluminum Reinforce – ACAR
- All Aluminum Alloy Conductors – AAAC
- Aluminum Conductor Steel Reinforced – ACSR

ACSR CABLE

ACSR CABLE - (DIN 48204)				
Wire size conductor	structure		Weight	Standard Packing Length
	AL	STEEL		
mm ²	NO. *mm ²	NO. *mm ²	Kg/Km	m
16/2.5	6*1.80	1*1.8	62.2	1000
25/4	6*2.25	1*2.25	97.2	1000
35/6	6*2.70	1*2.7	140.0	1000
44/32	14*2.00	7*2.4	370.2	1000
50/8	6*3.20	1*3.2	196.6	1000
50/30	12*2.33	7*2.33	375.8	1000
70/12	26*1.85	7*1.44	283	1000
95/15	26*2.15	7*1.67	381.5	1000
95/55	12*3.20	7*3.2	708.8	1000
105/75	14*3.10	7*2.25	510.8	1000
120/20	26*2.44	7*1.9	492.2	1000
120/70	12*3.60	7*3.6	897.1	1000
125/30	30*2.33	7*2.33	588.2	1000
150/25	26*2.70	7*2.1	602.2	1000
170/40	30*2.70	7*2.7	789.8	1000
185/30	26*3.00	7*2.33	742.8	1000
210/35	26*3.20	7*2.49	846.2	1000
210/50	30*3.00	7*3	975.1	1000
230/30	24*3.50	7*2.33	873.2	1000
240/40	26*3.45	7*2.68	982.5	1000
265/35	24*3.74	7*2.49	997.1	1000
300/50	26*3.86	7*3	1230.3	1000

ACSR CABLE

ACSR CABLE					
Wire size conductor	structure			Weight	Standard Packing Length
	AL	STEEL	XLPE Thickness		
mm ²	NO. *mm ²	NO. *mm ²	mm	Kg/Km	m
AAAC 70	7*3.75	0	0	214.0	1000
AAAC 120	19*2.95	0	0	359.4	1000
AAAC 185	19*3.50	0	0	505.9	1000
FOX	6*2.79	1*2.79	0	149.5	1000
MINK	6*3.66	1*3.66	0	257.2	1000
HYNA	6*4.39	7*1.93	0	412.0	1000
WOLF	30*2.59	7*2.59	0	726.8	1000
Rabbit	6*3.35	1*3.35	0	215.5	1000
DOG	6*4.72	7*1.57	0	396.9	1000
WOLF	30*2.59	7*2.59	0	726.8	1000
DINGO	18*3.35	1*3.35	0	508.2	1000
LYNX	30*2.79	7*2.79	0	843.4	1000
ZEBRA	54*3.18	7*3.18	0	1623.2	1000
AAAC 70	7*3.75	0	2.3	300.3	1000
AAAC 120	19*2.95	0	2.3	467.8	1000
AAAC 185	19*3.50	0	2.3	631.7	1000
FOX	6*2.79	1*2.79	2.3	216.5	1000
MINK	6*3.66	1*3.66	2.3	341.6	1000
HYNA	6*4.39	7*1.93	2.3	559.2	1000
WOLF	30*2.59	7*2.59	2.3	854.1	1000
Rabbit	6*3.35	1*3.35	2.3	375.7	1000
DOG	6*4.72	7*1.57	2.3	557.9	1000
WOLF	30*2.59	7*2.59	2.3	854.1	1000
DINGO	18*3.35	1*3.35	2.3	668.4	1000
LYNX	30*2.79	7*2.79	2.3	979.3	1000
ZEBRA	54*3.18	7*3.18	2.3	1776.0	1000