

DAHİLİ TESİSAT TELEFON KABLolari  
INTERNAL TELEPHONE CABLESVBV / VBV-K  
(TS IEC 60189-2)

1 - 200 çiftli kablolar / 1 - 200 pair cables

## KULLANIM ALANLARI

Bina içi tesisatlarda sinyal iletişimde kullanılır.

## KABLO YAPISI

İletken çapı	0,50mm mono çıplak ve ya kalaylı elektrolitik bakır tel
İzoleli çap	0.95mm Yarı-sert PVC, (BS 6746 Type-1)
Dış kılıf	Gri veya krem PVC. (BS 6746 Type-3)

## ELEKTİRİKSEL ÖZELLİKLER

İletken Direnci (1 km)	max. 97.8 ohm
Etkin Kapasite (1 km)	max 120 nF

## APLICATION

These cables used inside buildings for signal transmission purposes.

## CONSTRUCTION

Conductor Diameter	0.50mm solid bare or tinned solid copper wire.
Insulated Diameter	0.95mm Semi-rigid PVC. (BS 6746 Type-1)
Outer sheath	Grey or cream PVC. (BS 6746 Type-3)

## ELECTRICAL CHARACTERISTICS

Conductor resistance (1 km)	max. 97.8 ohm
Effective capacity (1 km)	max 120 nF

0.50mm.

KOD NO. CODE NO.	İLETKEN ADEDİ VE ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm.	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŐIK AĐIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
40905001/41005001	1x2x0,50	3,5	16	100/3000
40905002/41005002	2x2x0,50	4,3	25	100/3000
40905004/41005004	4x2x0,50	5,4	40	100/2000
40905006/41005006	6x2x0,50	6,5	56	100/1000
40905010/41005010	10x2x0,50	7,25	84	100/1000
40905015/41005015	15x2x0,50	8,6	111	100/500
40905020/41005020	20x2x0,50	10	146	100/500
40905030/41005030	30x2x0,50	12	218	100/250
40905050/41005050	50x2x0,50	14,5	324	100/250
40905100/41005100	100x2x0,50	20	613	100/250
40905150/41005150	150x2x0,50	24	910	100/250
40905200/41005200	200x2x0,50	28	1290	100/250

DAHİLİ TESİSAT TELEFON KABLolari  
INTERNAL TELEPHONE CABLES

EMEK KABLO PDV/PDV-K

PDV / PDV-K



1 - 200 çiftli kablolar / 1 - 200 pair cables

## KULLANIM ALANLARI

Bina içi tesisatlarda sinyal iletişimde kullanılır.

## KABLO YAPISI

**İletken çapı** | 0,50mm mono çıplak ve ya kalaylı elektrolitik bakır tel  
**İzoleli çap** | 0,82mm solid PE, (BS 6746 Type-1)  
**Dış kılıf** | Gri veya krem PVC. (BS 6746 Type-3)

## ELEKTİRİKSEL ÖZELLİKLER

**İletken Direnci (1 km)** | max. 97.8 ohm  
**Etkin Kapasite (1 km)** | max 56 nF

## APLICATION

These cables used inside buildings for signal transmission purposes.

## CONSTRUCTION

**Conductor Diameter** | 0.50mm solid bare or tinned solid copper wire.  
**Insulated Diameter** | 0.82mm solid PE, (BS 6746 Type-1)  
**Outer sheath** | Grey or cream PVC. (BS 6746 Type-3)

## ELECTRICAL CHARACTERISTICS

**Conductor resistance (1 km)** | max. 97.8 ohm  
**Effective capacity (1 km)** | max 56 nF

0.50mm.

KOD NO. CODE NO.	İLETKEN ADEDİ VE ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm.	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŐIK AĐIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
41305001/41405001	1x2x0,50	3	13,5	100/3000
41305002/41405002	2x2x0,50	3,6	19,1	100/3000
41305004/41405004	4x2x0,50	4,8	31,5	100/2000
41305006/41405006	6x2x0,50	5,9	43	100/1000
41305010/41405010	10x2x0,50	6,7	71	100/1000
41305020/41405020	20x2x0,50	9	133	100/500
41305030/41405030	30x2x0,50	10,6	187	100/250
41305050/41405050	50x2x0,50	13,5	292	100/250
41305100/41405100	100x2x0,50	18,9	613	100/250

## DAHİLİ TESİSAT TELEFON KABLOLARI INTERNAL TELEPHONE CABLES



1 - 200 çiftli kablolar / 1 - 200 pair cables

### KULLANIM ALANLARI

Bina içi tesisatlarda sinyal iletişimde kullanılır.

### KABLO YAPISI

İletken Çapı	0,50mm mono çıplak ve ya kalaylı elektrolitik bakır tel
İzoleli Çap	0,95mm LSOH
Dış Kılıf	Gri veya krem LSOH. (BS 6746 Type-3)

### ELEKTİRİKSEL ÖZELLİKLER

İletken Direnci (1 km)	max. 97.8 ohm
Etkin Kapasite (1 km)	max 120 nF

## HBH / HBH-K

### APLICATION

These cables used inside buildings for signal transmission purposes.

### CONSTRUCTION

Conductor Diameter	0.50mm solid bare or tinned solid copper wire.
Insulated Diameter	0.95mm LSOH
Outer sheath	Grey or cream LSOH. (BS 6746 Type-3)

### ELECTRICAL CHARACTERISTICS

Conductor resistance (1 km)	max. 97.8 ohm
Effective capacity (1 km)	max 120 nF

0.50mm.

KOD NO. CODE NO.	İLETKEN ADEDİ VE ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm.	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŞIK AĞIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
42405001/42505001	1x2x0,50	3,5	16	100/3000
42405002/42505002	2x2x0,50	4,3	25	100/3000
42405004/42505004	4x2x0,50	5,4	40	100/2000
42405006/42505006	6x2x0,50	6,5	56	100/1000
42405010/42505010	10x2x0,50	7,25	84	100/1000
42405015/42505015	15x2x0,50	8,6	111	100/500
42405020/42505020	20x2x0,50	10	146	100/500
42405030/42505030	30x2x0,50	12	218	100/250
42405050/42505050	50x2x0,50	14,5	324	100/250
42405100/42505100	100x2x0,50	20	613	100/250
42405150/42505150	150x2x0,50	24	910	100/250
42405200/42505200	200x2x0,50	28	1290	100/250

## DAHİLİ TESİSAT TELEFON KABLolari INTERNAL TELEPHONE CABLES



**VBAPV/VBAPV-K**  
(TS IEC 60189-2)



1 - 100 çiftli kablolar / 1 - 100 pair cables

### KULLANIM ALANLARI

Bina içi tesisatlarda sinyal iletişimde kullanılır. Ekran kablo özünü elektromanyetik etkilerden korur.

### KABLO YAPISI

<b>İletken Çapı</b>	0,50mm mono çıplak ve ya kalaylı elektrolitik bakır
<b>İzoleli Çap</b>	tel 0.95mm Yarı-sert PVC, (BS 6746 Type-1)
<b>Ayırıcı Bant</b>	Polyester folyo
<b>Toprak Teli</b>	Kalaylı solid elektrolitik bakır
<b>Ekran</b>	Plastik lamineli alüminyum folyo
<b>Dış Kılıf</b>	Gri veya krem PVC. (BS 6746 Type-3)

### ELEKTİRİKSEL ÖZELLİKLER

<b>İletken Direnci (1 km)</b>	max. 97.8 ohm
<b>Etkin Kapasite (1 km)</b>	max 120 nF

### APLICATION

These cables used inside buildings and connect the distribution cable heads of outdoor to the main distribution frames of telephone exchanges. Screen provides a perfect protection against electromagnetic interferences.

### CONSTRUCTION

<b>Conductor Diameter</b>	0.50mm solid bare or tinned solid copper wire.
<b>Insulated Diameter</b>	0.95mm Semi-rigid PVC. (BS 6746 Type-1)
<b>Wrapping</b>	PET foil
<b>Drain Wire</b>	Tinned solid copper wire
<b>Shield</b>	Plastic laminated aluminium foil
<b>Outer Sheath</b>	Grey or cream PVC. (BS 6746 Type-3)

### ELECTRICAL CHARACTERISTICS

<b>Conductor resistance (1 km)</b>	max. 97.8 ohm
<b>Effective capacity (1 km)</b>	max 120 nF

0.50mm.

KOD NO. CODE NO.	İLETKEN ADEDİ VE ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm.	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŐIK AĐIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
41105001/41205001	1x2x0,50	4	19	100/3000
41105002/41205002	2x2x0,50	4,5	26	100/3000
41105004/41205004	4x2x0,50	5,4	42	100/2000
41105006/41205006	6x2x0,50	6,5	58	100/1000
41105010/41205010	10x2x0,50	7,9	87	100/1000
41105015/41205015	15x2x0,50	8,6	114	100/500
41105020/41205020	20x2x0,50	10	149	100/500
41105030/41205030	30x2x0,50	12	222	100/250
41105050/41205050	50x2x0,50	14,5	328	100/250
41105100/41205100	100x2x0,50	20	619	100/250

## EKRANLI ELEKTRONİK KONTROL KABLOLARI SHIELDED ELECTRONIC CONTROL CABLES



ÜBM-03-BK-023

### KULLANIM ALANLARI

Sabit tesislerde analog ve digital sinyallerin iletimi için tasarlanmış dahili haberleşme kablolarıdır. Telefon, fax, telex veya modemlerde, güvenlik ve yangın alarm sistemlerinde, dahili telefon sistemlerinde, anons, kapı kontrol vb. sistemlerin iç tesisatında bağlantı kablosu olarak kullanılır. Çiftlerden oluşan kablo özü ve alüminyum ekranı sayesinde elektromanyetik alanların etkisinden korunur.

### KABLO YAPISI

İletken	Mono çıplak bakır
İzolasyon	PVC (Y11)
Renk Kodlaması	DIN VDE 0815
Büküm	Katlar halinde bükülü çiftler
Ayırıcı Bant	Plastik folyo sargı
Toprak Teli	Kalaylı bakır
Ekran	ALPET Folyo
Kılıf	Gri veya kırmızı PVC (YM1)

### MEKANİK ÖZELLİKLER

Min. Bükme Yarıçapı		10 x Dış Çap
Çalışma Sıcaklığı	Sabit	-25°C +70°C
	Hareketli	- 5°C..... 70°C

### ELEKTİRİKSEL ÖZELLİKLER/ELECTRICAL CHARACTERISTICS

KESİT CROSS-SECTION (mm <sup>2</sup> )	ÇEVİRİM DİRENCİ LOOP RESISTANCE (max.0hm/km)	KAPASİTE CAPACITY ( 800 Hz )	KAPASİTE DENGESİZLİĞİ CAPACITANCE UNBALANCE max.(pf/100m)	ÇALIŞMA VOLTAJİ RATING VOLTAGE (V)	TEST VOLTAJİ TEST VOLTAGE (V)
0.60 mm	130	max.100	k 80% max.300	300	800
0.80 mm	73.2	max.100	k 80% max.300	300	800
1.00 mm	46,8	max.100	k 80% max.300	300	1000
1.50 mm <sup>2</sup>	25,4	max.100	k 80% max.300	300	1000
2.50 mm <sup>2</sup>	14,8	max.100	k 80% max.300	300	1000

J-Y(St)Y...Lg.

### APPLICATION

Internal communication cables designed for analog and digital signal transmission in fixed plants. Used as connection cable for telephone , fax, telex or modem devices and also in fire alarm systems , entry control and comparable systems . Cable core which is made up of twisted pairs protected from electromagnetic interference's by its aluminum sheath.

### CONSTRUCTION

Conductor	Solid bare copper
Insulation	PVC (Y11)
Colour Code	According to DIN VDE 0815
Stranding	Pairs twisted in layers.
Separator	Plastic foil wrap.
Drain Wire	Tinned copper
Screen	ALPET Foil
Sheath	Grey or red PVC (YM1)

### MECHANICAL CHARACTERISTICS

Min. Bending Radius		10 x Overall Diameter
Temperature Range	Static	-25°C +70°C
	Flexing	- 5°C..... 70°C

KOD NO CODE NR	İLETKEN ADEDİ ve ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŞIK AĞIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
32305602	2x2x0,60	4,80	33	100/3000
32305604	4x2x0,60	6,50	58	100/1000
32305606	6x2x0,60	7,20	74	100/1000
32305610	10x2x0,60	9,00	115	100/500
32305616	16x2x0,60	10,50	160	100/500
32305620	20x2x0,60	11,00	190	100/500
32305624	24x2x0,60	12,00	225	100/500

2 x 2 x 0.60 mm. Yıldız dörtlü / Star quad

32305802	2x2x0,80	6,00	54	100/1000
32305804	4x2x0,80	8,50	95	100/500
32305806	6x2x0,80	10,00	134	100/500
32305810	10x2x0,80	12,40	200	100/500
32305816	16x2x0,80	14,80	298	100/500
32305820	20x2x0,80	15,60	350	100/500
32305824	24x2x0,80	18,40	438	100/250

2 x 2 x 0.80 mm. Yıldız dörtlü / Star quad

32105701	1x2x1.50 mm <sup>2</sup>	7.35	74.5	1000
32105702	2x2x1.50 mm <sup>2</sup>	8.42	120.0	500

2 x 2 x 1,5 mm<sup>2</sup> Yıldız dörtlü / Star quad

## EKRANLI ELEKTRONİK KONTROL KABLOLARI SHIELDED ELECTRONIC CONTROL CABLES



KÜÇÜK BÜKÜLME YARIÇAPI / ALEV GECİKTİRİCİ ÖZELLİK / DÜŞÜK DUMAN YOĞUNLUĞU / ZEHİRLİ VE KORUZİF GAZLARDAN ARINDIRILMIŞ

SMALL BENDING RADIUS / FLAME RETARDANT CHARACTERISTIC / LOW SMOKE EMISSION / WITHOUT POISONED AND CORROSIVE GASSES



ÜBM-03-BK-023

### KULLANIM ALANLARI

Sabit tesislerde analog ve digital sinyallerin iletimi için tasarlanmış dahili haberleşme kablolarıdır. Telefon, fax, telex veya modemlerde, güvenlik ve yangın alarm sistemlerinde, dahili telefon sistemlerinde, anons, kapı kontrol vb. sistemlerin iç tesisatında bağlantı kablosu olarak kullanılır. Çiftlerden oluşan kablo özü ve alüminyum ekranı sayesinde elektromanyetik alanların etkisinden korunur.

### KABLO YAPISI

İletken	Mono çıplak bakır
İzolasyon	LSOH (HI1)
Renk Kodlaması	DIN VDE 0815
Büküm	Katlar halinde bükülü çiftler
Ayırıcı Bant	Plastik folyo sargı
Toprak Teli	Kalaylı bakır
Ekran	ALPET Folyo
Kılıf	Gri veya Kırmızı LSOH (HM1)

### MEKANİK ÖZELLİKLER

Min. Bükme Yarıçapı	10 x Dış Çap
Çalışma Sıcaklığı	Sabit -25°C +70°C Hareketli -5°C..... 70°C

### TEKNİK ÖZELLİKLER

Bükme Yarıçapı	10X D
Çalışma Sıcaklığı	- 5°C~+50°C Hareketli / - 30°C~+70°C Sabit
Alev Geciktiricilik Testi	IEC 60332-1-2 / VDE 0482-332-1-2 / EN 60332-1-2
Duman Yoğunluğu	IEC 61034-2 / VDE 0482-1034-2 / EN 61034-2
Koruzif Gaz Testi	IEC 60754-2 / VDE 0482-267-2-3 / EN 50267-2-3
Halojensizlik Testi	IEC 60754-1 / VDE 0482-267-2-1 / EN 50267-2-1
Alev Yayılımı Testi	IEC 60332-3-24 / VDE 0482-332-3-24 / EN 60332-3-24

### ELEKTİRİKSEL ÖZELLİKLER/ELECTRICAL CHARACTERISTICS

KESİT CROSS-SECTION (mm <sup>2</sup> )	ÇEVİRİM DİRENCİ LOOP RESISTANCE (max. Ohm/km)	KAPASİTE CAPACITY (800 Hz)	KAPASİTE DENGESİZLİĞİ CAPACITANCE UNBALANCE max.(pf/100m)	ÇALIŞMA VOLTAJİ RATING VOLTAGE (V)	TEST VOLTAJİ TEST VOLTAGE (V)
0.60 mm	130	max.100	k 80% max.300	300	800
0.80 mm	73.2	max.100	k 80% max.300	300	800
1.00 mm	44,6	max.100	k 80% max.300	300	1000
1.50 mm <sup>2</sup>	24,6	max.100	k 80% max.300	300	1000
2.50 mm <sup>2</sup>	14,8	max.100	k 80% max.300	300	1000

J-H(St)H...Lg.

### APPLICATION

Internal communication cables designed for analog and digital signal transmission in fixed plants. Used as connection cable for telephone, fax, telex or modem devices and also in fire alarm systems, entry control and comparable systems. Cable core which is made up of twisted pairs protected from electromagnetic interference's by its aluminum sheath.

### CONSTRUCTION

Conductor	Solid bare copper
Insulation	LSOH (HI1)
Colour Code	According to DIN VDE 0815
Stranding	Pairs twisted in layers
Separator	Plastic foil wrap.
Drain Wire	Tinned copper
Screen	ALPET Foil
Sheath	Grey or Red LSOH (HM1)

### MECHANICAL CHARACTERISTICS

Min. Bending Radius	10 x Overall Diameter
Temperature Range	Static -25°C +70°C Flexing -5°C..... 70°C

### TECHNICAL SPECIFICATIONS

Bending Radius	10X D
Temperature Range	- 5°C~+50°C Moving / - 30°C~+70°C Stable
Flame Retardant Test	IEC 60332-1-2 / VDE 0482-332-1-2 / EN 60332-1-2
Smoke Density Test	IEC 61034-2 / VDE 0482-1034-2 / EN 61034-2
Test On Corriiveness Of Com. Gases	IEC 60754-2 / VDE 0482-267-2-3 / EN 50267-2-3
Halogen Test Free	IEC 60754-1 / VDE 0482-267-2-1 / EN 50267-2-1
Flame Propagation Test	IEC 60332-3-24 / VDE 0482-332-3-24 / EN 60332-3-24

KOD NO CODE NR	İLETKEN ADEDİ ve ÇAPI INSULATED NR OF CONDUCTOR AND DIAMETER mm	KABLO ÇAPI OVERALL DIAMETER mm.	YAKLAŞIK AĞIRLIK APPROX. WEIGHT kg/km	STANDART UZUNLUK STANDARD LENGTH mt
32305602	2x2x0,60	4,80	33	100/3000
32305604	4x2x0,60	6,50	58	100/1000
32305606	6x2x0,60	7,20	74	100/1000
32305610	10x2x0,60	9,00	115	100/500
32305616	16x2x0,60	10,50	160	100/500
32305620	20x2x0,60	11,00	190	100/500
32305624	24x2x0,60	12,00	225	100/5002 x 2 x

2 x 2 x 0.60 mm. Yıldız dörütlü / Star quad

32305801	1x2x0,80	5,35	43	100/2000
32305802	2x2x0,80	6,00	54	100/1000
32305804	4x2x0,80	8,50	95	100/500
32305806	6x2x0,80	10,00	134	100/500
32305810	10x2x0,80	12,40	200	100/500
32305816	16x2x0,80	14,80	298	100/500
32305820	20x2x0,80	15,60	350	100/500
32305824	24x2x0,80	18,40	438	100/250

2 x 2 x 0.80 mm. Yıldız dörütlü / Star quad

32105701	1x2x1.50 mm <sup>2</sup>	7.35	74.5	1000
32105702	2x2x1.50 mm <sup>2</sup>	8.42	120.0	500

2 x 2 x 1,5 mm<sup>2</sup> Yıldız dörütlü / Star quad