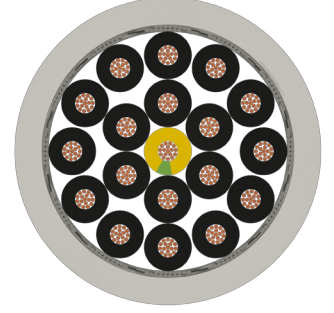


Kumanda Kabloları

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Kullanım Alanları

- Esnek yapıları sayesinde dar alanlarda.
- Enstrüman ve kontrol mühendisliğinde.
- Endüstriyel elektronikte.
- Ölçme ve kontrol amaçlı olarak makine üretiminde.
- Montaj ve üretim hatlarında.
- Islak, kuru ve nemli ortamlarda.
- Mekanik zorlanmaların düşük derecede olduğu uygulamalarda.

Kablo Yapısı

- 1 - İletken : Bükülü elektrolitik tavlı bakır iletken (Sınıf 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - İzole : PVC (DIN VDE 0207, EN 50363-3, TS EN 50290-2-21 T12), Siyah yalıtkan, beyaz numara kodlu (DIN VDE 0293, TS EN 50334)
- 3 - Büküm : Katlar halinde
- 4 - Sargı : Polyester bant
- 5 - Ekran : Kalaylı bakır örgü
- 6 - Dış Kılıf : Ultraviyole ışınlar dayanıklı PVC dış kılıf (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Gri)

Teknik Özellikler

İletken Kesiti	İletken Direnci Ω/km (20 °C)	İzolasyon Direnci $\text{M}\Omega/\text{km}$	Akım Taşıma Kapasitesi A	Test Voltajı V (DC, 1 dakika)	Çalışma Voltajı V DC
0.50 mm ²	39.0	20	9	2000	300/500
0.75 mm ²	26.0	20	12	2000	300/500
1.00 mm ²	19.5	20	15	2000	300/500
1.5 mm ²	13.3	20	18	2000	300/500
2.5 mm ²	7.98	20	26	2000	300/500
4.0 mm ²	4.95	20	34	2000	300/500
6.0 mm ²	3.30	20	44	2000	300/500
10.0 mm ²	1.91	20	61	2000	300/500
16.0 mm ²	1.21	20	82	2000	300/500

Mekanik Özellikler

Bükülme Yarıçapı	Sıcaklık Aralığı Çalışma
10xD mm	-30°C-+70°C

Standartlar

Alev Geciktiricilik Testi

IEC 60332-1-2,
EN 60332-1-2,
VDE 0482-332-1-2

Notlar

EMC: Elektromanyetik uyumluluk
Renk kodu, istenildiği takdirde JZ, OZ, JB, OB olabilir.
İki izoleli kablolarda Sarı/Yeşil toprak damarı bulunmaz.
Referans Standardı: DIN EN 50525-2-51, VDE 0285-525-2-51

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Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0050.1.0002	2	0.5	5.3	18.0	46	100/500/1000
3.602.3.2.2.0050.0.0003	3	0.5	5.6	22.4	54	100/500/1000
3.602.3.2.2.0050.0.0004	4	0.5	6.0	28.2	64	100/500/1000
3.602.3.2.2.0050.0.0005	5	0.5	6.5	33.0	75	100/500/1000
3.602.3.2.2.0050.0.0006	6	0.5	7.2	41.6	92	100/500/1000
3.602.3.2.2.0050.0.0007	7	0.5	7.2	46.0	95	100/500/1000
3.602.3.2.2.0050.0.0008	8	0.5	7.7	51.5	109	100/500/1000
3.602.3.2.2.0050.0.0009	9	0.5	9.0	56.0	126	100/500/1000
3.602.3.2.2.0050.0.0010	10	0.5	9.0	60.4	130	100/500/1000
3.602.3.2.2.0050.0.0012	12	0.5	9.3	69.8	145	100/500/1000
3.602.3.2.2.0050.0.0014	14	0.5	9.7	79.3	161	100/500/1000
3.602.3.2.2.0050.0.0016	16	0.5	10.3	89.1	181	100/500/1000
3.602.3.2.2.0050.0.0018	18	0.5	10.9	103.5	206	100/500/1000
3.602.3.2.2.0050.0.0020	20	0.5	11.5	113.6	229	100/500/1000
3.602.3.2.2.0050.0.0024	24	0.5	12.8	135.0	264	100/500/1000
3.602.3.2.2.0050.0.0025	25	0.5	12.8	139.4	278	100/500/1000
3.602.3.2.2.0050.0.0027	27	0.5	13.0	148.5	286	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0075.1.0002	2	0.75	5.7	22.8	54	100/500/1000
3.602.3.2.2.0075.0.0003	3	0.75	6.0	30.4	66	100/500/1000
3.602.3.2.2.0075.0.0004	4	0.75	6.5	37.2	78	100/500/1000
3.602.3.2.2.0075.0.0005	5	0.75	7.2	48.2	97	100/500/1000
3.602.3.2.2.0075.0.0006	6	0.75	7.9	55.4	114	100/500/1000
3.602.3.2.2.0075.0.0007	7	0.75	7.9	62.0	119	100/500/1000
3.602.3.2.2.0075.0.0008	8	0.75	8.4	68.9	136	100/500/1000
3.602.3.2.2.0075.0.0009	9	0.75	9.8	76.6	156	100/500/1000
3.602.3.2.2.0075.0.0010	10	0.75	9.8	83.2	160	100/500/1000
3.602.3.2.2.0075.0.0012	12	0.75	10.2	97.1	184	100/500/1000
3.602.3.2.2.0075.0.0014	14	0.75	10.8	115.8	210	100/500/1000
3.602.3.2.2.0075.0.0016	16	0.75	11.4	130.1	236	100/500/1000
3.602.3.2.2.0075.0.0018	18	0.75	12.0	144.7	263	100/500/1000
3.602.3.2.2.0075.0.0020	20	0.75	12.7	159.8	293	100/500/1000
3.602.3.2.2.0075.0.0024	24	0.75	14.0	186.4	334	100/500/1000
3.602.3.2.2.0075.0.0025	25	0.75	14.1	195.9	355	100/500/1000
3.602.3.2.2.0075.0.0027	27	0.75	14.5	211.5	372	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0100.1.0002	2	1	6.1	27.1	63	100/500/1000
3.602.3.2.2.0100.0.0003	3	1	6.5	35.6	76	100/500/1000
3.602.3.2.2.0100.0.0004	4	1	7.1	48.3	96	100/500/1000
3.602.3.2.2.0100.0.0005	5	1	7.7	57.0	113	100/500/1000
3.602.3.2.2.0100.0.0006	6	1	8.4	65.4	132	100/500/1000
3.602.3.2.2.0100.0.0007	7	1	8.4	73.7	138	100/500/1000
3.602.3.2.2.0100.0.0008	8	1	9.2	82.1	161	100/500/1000
3.602.3.2.2.0100.0.0009	9	1	10.8	97.9	190	100/500/1000
3.602.3.2.2.0100.0.0010	10	1	10.8	106.1	196	100/500/1000
3.602.3.2.2.0100.0.0012	12	1	11.2	123.4	225	100/500/1000
3.602.3.2.2.0100.0.0014	14	1	11.7	141.3	252	100/500/1000

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3.602.3.2.2.0100.0.0016	16	1	12.5	159.5	283	100/500/1000
3.602.3.2.2.0100.0.0018	18	1	13.1	178.3	317	100/500/1000
3.602.3.2.2.0100.0.0020	20	1	13.9	195.6	352	100/500/1000
3.602.3.2.2.0100.0.0024	24	1	15.3	227.9	400	100/500/1000
3.602.3.2.2.0100.0.0025	25	1	15.4	240.9	427	100/500/1000
3.602.3.2.2.0100.0.0027	27	1	15.8	257.9	446	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0150.1.0002	2	1.5	6.7	36.5	77	100/500/1000
3.602.3.2.2.0150.0.0003	3	1.5	7.3	53.9	102	100/500/1000
3.602.3.2.2.0150.0.0004	4	1.5	7.8	66.8	121	100/500/1000
3.602.3.2.2.0150.0.0005	5	1.5	8.6	80.3	146	100/500/1000
3.602.3.2.2.0150.0.0006	6	1.5	9.4	93.5	172	100/500/1000
3.602.3.2.2.0150.0.0007	7	1.5	9.4	106.4	182	100/500/1000
3.602.3.2.2.0150.0.0008	8	1.5	10.2	120.6	211	100/500/1000
3.602.3.2.2.0150.0.0009	9	1.5	12.1	141.4	250	100/500/1000
3.602.3.2.2.0150.0.0010	10	1.5	12.1	154.4	260	100/500/1000
3.602.3.2.2.0150.0.0012	12	1.5	12.5	181.6	297	100/500/1000
3.602.3.2.2.0150.0.0014	14	1.5	13.2	207.9	337	100/500/1000
3.602.3.2.2.0150.0.0016	16	1.5	14.0	235.9	379	100/500/1000
3.602.3.2.2.0150.0.0018	18	1.5	14.7	264.3	426	100/500/1000
3.602.3.2.2.0150.0.0020	20	1.5	15.6	291.3	474	100/500/1000
3.602.3.2.2.0150.0.0024	24	1.5	17.4	344.2	553	100/500/1000
3.602.3.2.2.0150.0.0025	25	1.5	17.5	361.6	586	100/500/1000
3.602.3.2.2.0150.0.0027	27	1.5	17.8	387.7	609	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0250.1.0002	2	2.5	8.1	56.9	114	100/500/1000
3.602.3.2.2.0250.0.0003	3	2.5	8.6	80.4	146	100/500/1000
3.602.3.2.2.0250.0.0004	4	2.5	9.4	102.2	178	100/500/1000
3.602.3.2.2.0250.0.0005	5	2.5	10.5	125.8	220	100/500/1000
3.602.3.2.2.0250.0.0006	6	2.5	11.5	153.1	265	100/500/1000
3.602.3.2.2.0250.0.0007	7	2.5	11.5	174.5	281	100/500/1000
3.602.3.2.2.0250.0.0008	8	2.5	12.5	197.8	329	100/500/1000
3.602.3.2.2.0250.0.0009	9	2.5	14.8	224.5	381	100/500/1000
3.602.3.2.2.0250.0.0010	10	2.5	14.8	245.9	397	100/500/1000
3.602.3.2.2.0250.0.0012	12	2.5	15.3	291.7	456	100/500/1000
3.602.3.2.2.0250.0.0014	14	2.5	16.1	335.6	519	100/500/1000
3.602.3.2.2.0250.0.0016	16	2.5	17.2	383.3	591	100/500/1000
3.602.3.2.2.0250.0.0018	18	2.5	18.3	431.0	676	100/500/1000
3.602.3.2.2.0250.0.0020	20	2.5	19.5	475.7	756	100/500/1000
3.602.3.2.2.0250.0.0024	24	2.5	21.7	565.2	875	100/500/1000
3.602.3.2.2.0250.0.0025	25	2.5	21.9	591.4	938	100/500/1000
3.602.3.2.2.0250.0.0027	27	2.5	22.4	642.5	982	100/500/1000

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Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0400.1.0002	2	4	9.2	85.2	165	100/500/1000
3.602.3.2.2.0400.0.0003	3	4	9.8	120.7	199	100/500/1000
3.602.3.2.2.0400.0.0004	4	4	10.8	160.6	252	100/500/1000
3.602.3.2.2.0400.0.0005	5	4	11.9	197.3	310	100/500/1000
3.602.3.2.2.0400.0.0006	6	4	13.1	235.5	370	100/500/1000
3.602.3.2.2.0400.0.0007	7	4	13.1	269.8	395	100/500/1000
3.602.3.2.2.0400.0.0008	8	4	14.3	308.7	466	100/500/1000
3.602.3.2.2.0400.0.0009	9	4	17.1	354.9	549	100/500/1000
3.602.3.2.2.0400.0.0010	10	4	17.1	389.2	574	100/500/1000
3.602.3.2.2.0400.0.0012	12	4	17.7	462.3	663	100/500/1000
3.602.3.2.2.0400.0.0014	14	4	18.8	532.5	760	100/500/1000
3.602.3.2.2.0400.0.0016	16	4	20.0	603.1	860	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.0600.1.0002	2	6	11.0	126.6	236	100/500/1000
3.602.3.2.2.0600.0.0003	3	6	11.8	179.2	289	100/500/1000
3.602.3.2.2.0600.0.0004	4	6	12.9	233.7	361	100/500/1000
3.602.3.2.2.0600.0.0005	5	6	14.3	288.2	447	100/500/1000
3.602.3.2.2.0600.0.0006	6	6	15.8	343.7	538	100/500/1000
3.602.3.2.2.0600.0.0007	7	6	15.8	395.1	575	100/500/1000
3.602.3.2.2.0600.0.0008	8	6	17.3	452.3	682	100/500/1000
3.602.3.2.2.0600.0.0009	9	6	20.9	518.8	809	100/500/1000
3.602.3.2.2.0600.0.0010	10	6	20.9	570.3	847	100/500/1000
3.602.3.2.2.0600.0.0012	12	6	21.8	679.8	990	100/500/1000
3.602.3.2.2.0600.0.0014	14	6	23.1	785.1	1134	100/500/1000
3.602.3.2.2.0600.0.0016	16	6	24.6	891.7	1282	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.1000.1.0002	2	10	13.2	206.3	356	100/500/1000
3.602.3.2.2.1000.0.0003	3	10	14.1	298.1	444	100/500/1000
3.602.3.2.2.1000.0.0004	4	10	15.6	390.8	563	100/500/1000
3.602.3.2.2.1000.0.0005	5	10	17.4	485.8	704	100/500/1000
3.602.3.2.2.1000.0.0006	6	10	19.4	581.0	856	100/500/1000
3.602.3.2.2.1000.0.0007	7	10	19.4	670.0	922	100/500/1000
3.602.3.2.2.1000.0.0008	8	10	21.2	761.9	1071	100/500/1000
3.602.3.2.2.1000.0.0009	9	10	25.7	859.1	1261	100/500/1000
3.602.3.2.2.1000.0.0010	10	10	25.7	948.1	1337	100/500/1000
Part Numarası	İletken Sayısı	İletken Kesiti (mm ²)	Ortalama Dış Çap (mm)	Bakır Ağırlığı (kg/km)	Ortalama Ağırlık (kg/km)	Makara Boyu (m)
3.602.3.2.2.1600.1.0002	2	16	17.5	321.3	607	100/500/1000
3.602.3.2.2.1600.0.0003	3	16	18.8	467.7	741	100/500/1000
3.602.3.2.2.1600.0.0004	4	16	21.1	617.0	950	100/500/1000
3.602.3.2.2.1600.0.0005	5	16	23.6	767.2	1197	100/500/1000
3.602.3.2.2.1600.0.0006	6	16	26.1	900.2	1405	100/500/1000
3.602.3.2.2.1600.0.0007	7	16	26.1	1040.4	1537	100/500/1000
3.602.3.2.2.1600.0.0008	8	16	27.5	1185.8	1700	100/500/1000
3.602.3.2.2.1600.0.0009	9	16	33.7	1.337.6	2019	100/500/1000
3.602.3.2.2.1600.0.0010	10	16	33.7	1.477.8	2162	100/500/1000