

AS/NZS 1802 TYPE 240

GENEL KULLANIM İÇİN KAPALI KÖMÜR MADENİ KABLOSU
UNDERGROUND COAL MINE CABLE FOR GENERAL USE

1.1-11 kV

KONSTRÜKSİYON AÇIKLAMASI / CONSTRUCTION DESCRIPTION

Kompozit ekranlı 3 faz damarı ile araların yerleştirilmiş 3 kumanda damarı, yarıiletken taşıyıcı ve koruyucu fitil etrafında bükülür.
3 phase cores with composite screens and 3 interstitial pilot cores laid up around a semiconductive cradle for support and protection of power cores.

KABLO YAPISI

- 1- İLETKEN** : Elektrolitik, kalaylı çoklu bükülmüş esnek bakır tel. (Rope lay) AS/NZS 1125-2.10
2- AYIRICI : Yarıiletken tabaka (3.3/3.3 kV ve üstü) (Kumanda damarları hariç)
3- İZOLASYON : R-EP-90 (AS/NZS 3808'e göre)
4- AYIRICI : Yarıiletken tabaka (3.3/3.3 kV ve üstü) (Kumanda damarları hariç)
5- EKLAN : Faz damarlarının üzeri kalaylı bakır tel ve ip ekran ile örgülü.
6- BÜKÜM : Faz damarlar birbirine değmeyecek ancak kumanda damarlarına değecek şekilde yarıiletken fitil etrafına sarılarak bükülür.
7- DIŞ KILIF : Ağır hizmete yönelik elastomer dış kılıf (AS/NZS 3808'e göre).

CABLE STRUCTURE

- 1- CONDUCTOR** : Electrolytic, multiple-stranded circular flexible tinned copper wire (rope lay) AS/NZS 1125-2.10
2- SEPARATOR : Semiconducting layer (3.3/3.3kV and above) (Except for pilot cores)
3- INSULATION : R-EP-90 (acc.to AS/NZS 3808)
4- SEPARATOR : Semiconducting layer (3.3/3.3kV and above) (Except for pilot cores)
5- SCREEN : Tinned copper / Nylon braided screen over phase cores.
6- LAYUP : Cores are laid up over a semiconducting cradle without contacting each other, but in contact with interstitial pilot cores.
7- OUTER SHEATH : Heavy-duty elastomer outer sheath (acc.to AS/NZS 3808)



KABLO ÖZELLİKLERİ / CABLE PROPERTIES

İLGİLİ STANDARTLAR / RELATED STANDARDS : AS/NZS 1802
ANMA GERİLİMİ / RATED VOLTAGE : 1.1/1.1 kV, 3.3/3.3 kV, 6.6/6.6 kV, 11/11 kV
TEST GERİLİMİ / TEST VOLTAGE : 4.2 kV, 12 kV, 22 kV, 30 kV

KULLANIM ALANI

Kapalı kömür madenlerinde (nakliye araçları hariç) genel kullanım içindir.

ORTAM

Patlayıcı gaz ve tozların olduğu kapalı maden ocaklarında kullanılır.

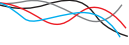
APPLICATION

General use cable for underground coal mines (except for shuttle cars)

ENVIRONMENT

Used in mines where explosive gasses and dust can accumulate.

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Nominal Kesit Cross-section mm ²	Güç damarları Power Cores				Ekran Core screen		Kumanda damarları Pilot cores		Kılıf Sheath		Ağırlıklar Mass	
	Büküm Strand no/mm	İletken Çapı Conductor Diameter Nom. mm	İzolasyon kalınlığı Insulation thickness mm	İzolasyon çapı Insulation diameter Nom. mm	Örgü telleri Braid wires no/mm	Nominal Kesit Cross- section mm ²	Büküm Strand Min.no/mm	İzolasyon kalınlığı Insulation thickness mm	Kalınlık Thickness mm	Kablo çapı Overall diameter Nom. Mm	Yaklaşık kablo ağırlığı Approx. cable weight kg/km	Bakır ağırlığı Copper weight kg/km
Type	240.1	1.1/1.1kV										
6	84/0.30	3.4	1.5	6.5	7/0.25	7.2	15/0.30	1	3.8	30	1,350	418
10	77/0.40	4.6	1.5	7.7	7/0.25	8.6	24/0.30	1	3.8	32.6	1,650	594
16	126/0.40	5.7	1.6	9	7/0.25	9.6	39/0.30	1	4	35.8	2,050	824
25	209/0.40	7.2	1.6	10.5	7/0.25	11.3	63/0.30	1.2	4.3	39.7	2,700	1,181
35	285/0.40	8.5	1.6	11.8	7/0.25	12.4	87/0.30	1.2	4.6	43.1	3,250	1,550
50	380/0.40	10	1.7	13.5	7/0.25	14.1	114/0.30	1.2	5	47.7	4,050	2,091
70	203/0.67	12	1.8	16	7/0.25	16.5	36/0.67	1.2	5.4	53.9	5,400	2,889
95	259/0.67	13.2	2	17.6	7/0.25	18.2	36/0.67	1.2	6	58.6	6,450	3,658
120	336/0.67	15.3	2.1	20	7/0.25	20.3	39/0.67	1.4	6.4	64.4	7,800	4,470
150	427/0.67	17.1	2.3	22.2	7/0.25	22.3	48/0.67	1.4	6.9	70.2	9,500	5,513
185	518/0.67	19.2	2.5	24.7	7/0.30	30.2	63/0.67	1.4	7.4	77.4	11,500	6,840
240	672/0.67	21.8	2.8	27.9	7/0.30	33.6	77/0.67	1.6	8.2	86	14,400	8,664
300	854/0.67	24.4	3	30.9	7/0.40	50.1	98/0.67	1.6	8.8	95.1	18,100	11,080
Type	240.3	3.3/3.3kV										
16	126/0.40	5.7	3	12.5	7/0.25	13.1	39/0.30	1.4	5.3	46.2	3,050	925
25	209/0.40	7.2	3	14	7/0.25	14.8	63/0.30	1.4	5.6	50.1	3,800	1,282
35	285/0.40	8.5	3	15.3	7/0.25	15.8	87/0.30	1.4	5.9	53.5	4,450	1,648
50	380/0.40	10	3	16.8	7/0.25	17.2	114/0.30	1.4	6.3	57.6	5,250	2,181
70	203/0.67	12	3	18.8	7/0.25	18.6	36/0.67	1.4	6.6	62.5	6,600	2,950
95	259/0.67	13.2	3	20	7/0.25	20.3	36/0.67	1.4	7.1	66.2	7,550	3,719
120	336/0.67	15.3	3	22.1	7/0.30	27.2	39/0.67	1.6	7.4	72	9,150	4,669
150	427/0.67	17.1	3	23.9	7/0.40	39.6	48/0.67	1.6	7.8	78	11,200	6,011
185	518/0.67	19.2	3	26	7/0.40	42.2	63/0.67	1.8	8.2	83.4	12,900	7,186
240	672/0.67	21.8	3	28.6	7/0.40	46.6	77/0.67	1.8	8.8	90.3	15,600	9,038
300	854/0.67	24.4	3	31.2	7/0.50	63.2	98/0.67	1.8	9.4	98.4	19,200	11,457
Type	240.6	6.6/6.6kV										
16	126/0.40	5.7	5	16.5	7/0.25	17.2	39/0.30	1.4	6.4	57.3	4,450	1,043
25	209/0.40	7.2	5	18	7/0.25	18.6	63/0.30	1.4	6.7	61.2	5,250	1,392
35	285/0.40	8.5	5	19.3	7/0.25	18.6	87/0.30	1.6	7	64.6	6,000	1,728
50	380/0.40	10	5	20.8	7/0.25	21.3	114/0.30	1.6	7.3	68.5	6,900	2,299
70	203/0.67	12	5	22.8	7/0.25	23.4	36/0.67	1.6	7.7	73.7	8,350	3,088
95	259/0.67	13.2	5	24	7/0.30	29.2	36/0.67	1.6	8.1	77.8	9,650	3,975
120	336/0.67	15.3	5	26.1	7/0.30	31.7	39/0.67	1.8	8.5	83.1	11,200	4,799
150	427/0.67	17.1	5	27.9	7/0.40	45.7	48/0.67	1.8	8.9	89.1	13,500	6,187
185	518/0.67	19.2	5	30	7/0.40	48.4	63/0.67	1.8	9.3	94.5	15,300	7,365
240	672/0.67	21.8	5	32.6	7/0.40	52.8	77/0.67	1.8	9.9	101.4	18,100	9,216
300	854/0.67	24.4	5	35.2	7/0.50	71.5	98/0.67	1.8	10.4	109.3	21,900	11,696
Type	240.11	11/11kV										
25	209/0.40	7.2	7.6	23.4	7/0.25	23.7	63/0.30	2	8.1	75.6	7,600	1,538
35	285/0.40	8.5	7.6	24.7	7/0.30	30.2	87/0.30	2	8.4	79.7	8,700	2,063
50	380/0.40	10	7.6	26.2	7/0.30	31.7	114/0.30	2	8.7	83.6	9,750	2,598
70	203/0.67	12	7.6	28.2	7/0.30	34.1	36/0.67	2	9.1	88.8	11,400	3,396
95	259/0.67	13.2	7.6	29.4	7/0.40	47.5	36/0.67	2	9.6	93.7	13,200	4,502
120	336/0.67	15.3	7.6	31.5	7/0.40	51	39/0.67	2.2	9.9	98.8	14,900	5,354
150	427/0.67	17.1	7.6	33.3	7/0.40	53.7	48/0.67	2.2	10.3	103.5	16,800	6,417
185	518/0.67	19.2	7.6	35.4	7/0.40	57.2	63/0.67	2.2	10.7	108.8	18,800	7,618