AS/NZS 1802 TYPE 260

ESNEK ZIRHLI, EKRANLI KAPALI KÖMÜR MADENİ KABLOSU
PLIABLE ARMOURED AND SCREENED UNDERGROUND COAL MINE CABLE

1.1-11 kV

KONSTRÜKSİYON AÇIKLAMASI / *CONSTRUCTION DESCRIPTION*

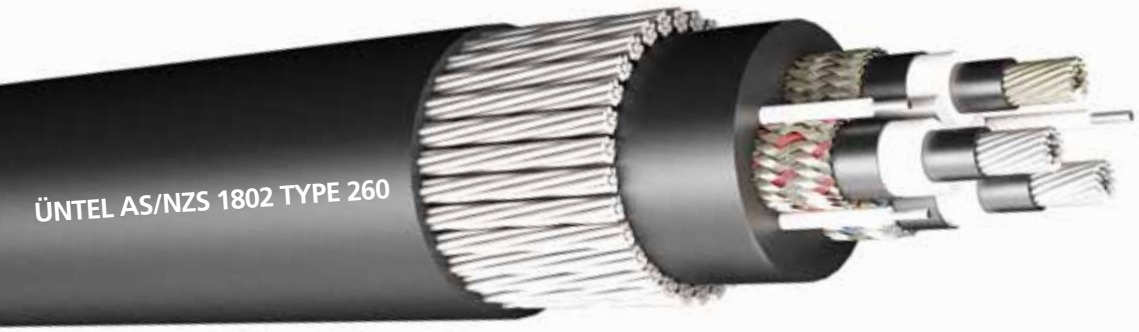
Kompozit ekranlı 3 faz damarı ile aralarına yerleştirimiş 3 toprak damarı, elastomerik fitil etrafında bükülür.
Dolgu ve dış kılıf arasında galvanizli çelik tellerden esnek bir zırh mevcuttur.
3 phase cores with composite screens and 3 interstitial pilot cores laid up around a semiconductive cradle for support and protection of power cores.
Supported with a flexible armour made of galvanized steel wires.

KABLO YAPISI

1- İLETKEN	: Elektrolitik, kalaylı ve bükülü bakır tel AS/NZS 1125 Sınıf 6
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- EKRAN	: 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- DOLGU MALZEMESİ	: Elastromerik bileşik
8- ZIRH	: Yedili bükülmüş galvanize çelik tellerden sarılı zırh (AS/NZS 3863'e göre)
9- DIŞ KILIF	: Ağır hizmete yönelik elastomer dış kılıf (AS/NZS 3808'e göre).

CABLE STRUCTURE

1- CONDUCTOR	*: Electrolytic, stranded tinned copper wire AS/NZS 1125 Class 6*
2- SEPERATOR	*: Semiconducting layer (3.3/3.3kV and above) (Except for pilot cores)*
3- INSULATION	*: R-EP-90 (acc.to AS/NZS 3808)*
4- SEPERATOR	*: 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- BEDDING	*: Elastomeric compound*
8- ARMOUR	*: Galvanized steel pilable armour (acc. to AS/NZS 3863)*
9- 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 mekanik korunma sağlamlık gerektiren yerlerde kullanılır (nakliye araçları hariç)

ORTAM

Patlayıcı gaz ve tozların olduğu kapalı maden ocaklarında kullanılır.

APPLICATION

Used as supply cable where mechanical protection and strenght is required in underground coal mines (except for shuttle cars)

ENVIRONMENT

Used in mines where explosive gasses and dust can accumulate.

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Güç damarları *Power Cores*					Ekran *Core screen*		Kumanda damarları *Pilot cores*		Zırh *Armour*			Kılıflar *Sheath*			Ağırlıklar *Mass*	
Nominal Kesit *Cross-section* mm²	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* mm²	Büküm *Strand* Min. no/mm	İzolasyon kalınlığı *Insulation thickness* Min.mm	İç Kılıf üst çap *Diameter over inner sheath* mm	Zırh telleri *Armour wires* no/mm	Zırh üstü çap *Diameter over armour* mm	İç Kılıf kalınlığı *Inner sheath thickness* mm	Dış Kılıf kalınlığı *Outer sheath 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	26.2	7/0.45	28.9	2	3.8	36.9	2,300	418
10	77/0.40	4.6	1.5	7.7	7/0.25	8.6	24/0.30	1	28.8	7/0.45	31.5	2	3.8	39.5	2,650	594
16	126/0.40	5.7	1.6	9	7/0.25	9.6	39/0.30	1	32.7	7/0.90	38.1	2.5	4	46.5	4,100	824
25	209/0.40	7.2	1.6	10.5	7/0.25	11.3	63/0.30	1.2	35.9	7/0.90	41.3	2.5	4.3	50.4	4,950	1,181
35	285/0.40	8.5	1.6	11.8	7/0.25	12.4	87/0.30	1.2	38.7	7/0.90	44.1	2.5	4.6	53.8	5,650	1,550
50	380/0.40	10	1.7	13.5	7/0.25	14.1	114/0.30	1.2	42.4	7/0.90	47.8	2.5	5	58.4	6,650	2,091
70	203/0.67	12	1.8	16	7/0.25	16.5	36/0.67	1.2	47.8	7/0.90	53.2	2.5	5.4	64.6	8,350	2,889
95	259/0.67	13.2	2	17.6	7/0.25	18.2	36/0.67	1.2	53.3	7/0.90	58.7	3.5	6	71.4	10,000	3,658
120	336/0.67	15.3	2.1	20	7/0.25	20.3	39/0.67	1.4	58.3	7/0.90	63.7	3.5	6.4	77.2	11,800	4,470
150	427/0.67	17.1	2.3	22.2	7/0.25	22.3	48/0.67	1.4	63.1	7/0.90	68.5	3.5	6.9	83	13,700	5,513
185	518/0.67	19.2	2.5	24.7	7/0.30	30.2	63/0.67	1.4	69.1	7/0.90	74.5	3.5	7.4	90	16,100	6,840
240	672/0.67	21.8	2.8	27.9	7/0.30	33.6	77/0.67	1.6	78.2	7/1.25	85.7	4.5	8.2	103	21,500	8,664
300	854/0.67	24.4	3	30.9	7/0.40	50.1	98/0.67	1.6	86	7/1.25	93.5	4.5	8.8	112.1	25,900	11,080
Type	**260.3**	**3.3/3.3kV**														
16	126/0.40	5.7	3	12.5	7/0.25	13.1	39/0.30	1.4	40.3	7/0.90	45.7	2.5	5.3	56.9	5,600	925
25	209/0.40	7.2	3	14	7/0.25	14.8	63/0.30	1.4	43.5	7/0.90	48.9	2.5	5.6	60.8	6,500	1,282
35	285/0.40	8.5	3	15.3	7/0.25	15.8	87/0.30	1.4	48.5	7/0.90	53.9	3.5	5.9	66.3	7,750	1,648
50	380/0.40	10	3	16.8	7/0.25	17.2	114/0.30	1.4	51.7	7/0.90	57.1	3.5	6.3	70.4	8,750	2,181
70	203/0.67	12	3	18.8	7/0.25	18.6	36/0.67	1.4	56	7/0.90	61.4	3.5	6.6	75.3	10,300	2,950
95	259/0.67	13.2	3	20	7/0.25	20.3	36/0.67	1.4	58.6	7/0.90	64	3.5	7.1	78.9	11,500	3,719
120	336/0.67	15.3	3	22.1	7/0.30	27.2	39/0.67	1.6	63.8	7/0.90	69.2	3.5	7.4	84.7	13,400	4,669
150	427/0.67	17.1	3	23.9	7/0.40	39.6	48/0.67	1.6	71.1	7/1.25	78.6	4.5	7.8	95	17,700	6,011
185	518/0.67	19.2	3	26	7/0.40	42.2	63/0.67	1.8	75.6	7/1.25	83.1	4.5	8.2	100.4	19,900	7,186
240	672/0.67	21.8	3	28.6	7/0.40	46.6	77/0.67	1.8	81.2	7/1.25	88.7	4.5	8.8	107.3	23,000	9,038
300	854/0.67	24.4	3	31.2	7/0.50	63.2	98/0.67	1.8	88.1	7/1.25	95.6	4.5	9.4	115.4	27,100	11,457
Type	**260.6**	**6.6/6.6kV**														
16	126/0.40	5.7	5	16.5	7/0.25	17.2	39/0.30	1.4	51.2	7/0.90	56.6	3.5	6.4	70.1	7,950	1,043
25	209/0.40	7.2	5	18	7/0.25	18.6	63/0.30	1.4	54.5	7/0.90	59.9	3.5	6.7	74	8,950	1,392
35	285/0.40	8.5	5	19.3	7/0.25	18.6	87/0.30	1.6	57.3	7/0.90	62.7	3.5	7	77.4	9,850	1,728
50	380/0.40	10	5	20.8	7/0.25	21.3	114/0.30	1.6	60.5	7/0.90	65.9	3.5	7.3	81.2	11,000	2,299
70	203/0.67	12	5	22.8	7/0.25	23.4	36/0.67	1.6	66.9	7/1.25	74.4	4.5	7.7	90.7	14,500	3,088
95	259/0.67	13.2	5	24	7/0.30	29.2	36/0.67	1.6	70.2	7/1.25	77.7	4.5	8.1	94.8	16,100	3,975
120	336/0.67	15.3	5	26.1	7/0.30	31.7	39/0.67	1.8	74.7	7/1.25	82.2	4.5	8.5	100.2	18,000	4,799
150	427/0.67	17.1	5	27.9	7/0.40	45.7	48/0.67	1.8	79.8	7/1.25	87.3	4.5	8.9	106.2	20,800	6,187
185	518/0.67	19.2	5	30	7/0.40	48.4	63/0.67	1.8	84.4	7/1.25	91.9	4.5	9.3	111.5	23,000	7,365
240	672/0.67	21.8	5	32.6	7/0.40	52.8	77/0.67	1.8	90	7/1.25	97.5	4.5	9.9	118.4	26,300	9,216
300	854/0.67	24.4	5	35.2	7/0.50	71.5	98/0.67	1.8	96.9	7/1.25	104.4	4.5	10.4	126.3	30,600	11,696
Type	**260.11**	**11/11kV**														
25	209/0.40	7.2	7.6	23.4	7/0.25	23.7	63/0.30	2	68	7/1.25	75.5	4.5	8.1	92.7	13,800	1,538
35	285/0.40	8.5	7.6	24.7	7/0.30	30.2	87/0.30	2	71.5	7/1.25	79	4.5	8.4	96.7	15,300	2,063
50	380/0.40	10	7.6	26.2	7/0.30	31.7	114/0.30	2	74.7	7/1.25	82.2	4.5	8.7	100.6	16,600	2,598
70	203/0.67	12	7.6	28.2	7/0.30	34.1	36/0.67	2	79	7/1.25	86.5	4.5	9.1	105.8	18,600	3,396
95	259/0.67	13.2	7.6	29.4	7/0.40	47.5	36/0.67	2	82.9	7/1.25	90.4	4.5	9.6	110.7	20,800	4,502
120	336/0.67	15.3	7.6	31.5	7/0.40	51	39/0.67	2.2	87.4	7/1.25	94.9	4.5	9.9	115.8	22,900	5,354
150	427/0.67	17.1	7.6	33.3	7/0.40	53.7	48/0.67	2.2	91.3	7/1.25	98.8	4.5	10.3	120.5	25,100	6,417
185	518/0.67	19.2	7.6	35.4	7/0.40	57.2	63/0.67	2.2	95.8	7/1.25	103.3	4.5	10.7	125.9	27,500	7,618