



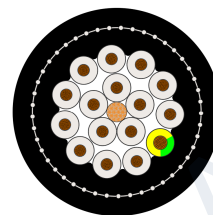
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

(N)12YRD11YT11Y-J CABLE

Halogen-free PUR power and control cable with inner sheath and textile braid



APPLICATION

Highly flexible halogen-free cable for trolley systems, drag chains, moving machine parts and conveyor facilities. Suitable for dry and wet rooms, outdoor use and permanent water service up to 50 m depth.

KEY FEATURES

Parameter	Value
Application	Halogen-free power and control cable for festoon systems, trolleys, drag chains and moving machine parts
Water service	Suitable for permanent use in water up to 50 m depth, AD8; not for drinking water
Temperature range	Fixed installation: -50 to 90 deg C; flexible operation: -40 to 90 deg C
Protection	Halogen-free PUR jacket with high flexibility, UV, ozone, moisture and oil resistance

DESIGN

Parameter	Value
Conductor	Bare copper wires, finely stranded Class 5 according to DIN EN/IEC 60228
Insulation	Polyester-based insulation with numbered core identification
Core arrangement	Cores stranded in layers around a central aramid-yarn supporting element
Outer sheath	Halogen-free PUR compound, black matt finish

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage U0/U	0.6/1 kV
Max. AC operating voltage	0.7/1.2 kV
Max. DC operating voltage	0.9/1.8 kV
AC test voltage	2.5 kV
Conductor temperature	90 deg C; short circuit 250 deg C
Bending radius, fixed	At least 6 x outer diameter
Bending radius, free moving	At least 7.5 x outer diameter
Tensile load per conductor	Maximum 25 N/mm ²
Standards	DIN EN/IEC 60228; EN 60811-404; EN 60754; EN 60332-1-2
Environmental	Halogen-free; RoHS 2015/863/EU; suitable for indoor, outdoor and wet rooms

TECHNICAL DATA

(N)12YRD11YT11Y-J - MULTI-CORE DATA (1)								
Configuration	Size mm2	Stranding	Insulation thickness mm	Jacket thickness mm	Outer diameter mm	Ampacity A	Min. bend diameter mm	Weight kg/km
4x1.5	1.5	4x1.5	-	-	11.6-13.1	-	-	170
4x2.5	2.5	4x2.5	-	-	13.1-14.6	-	-	225
4x4	4	4x4	-	-	14.9-16.4	-	-	320
4x6	6	4x6	-	-	16.6-18.1	-	-	420
4x10	10	4x10	-	-	19.1-20.6	-	-	620
4x16	16	4x16	-	-	21.8-23.8	-	-	880
4x25	25	4x25	-	-	26.5-28.5	-	-	1335
4x35	35	4x35	-	-	29.6-31.6	-	-	1780

CONSTRUCTION AND APPLICATION NOTES	
Parameter	Value
Conductor	Bare finely stranded copper, Class 5 according to DIN EN/IEC 60228
Supporting element	Central aramid yarn element supports the layered core arrangement
Inner sheath	Halogen-free PUR compound with textile braid reinforcement
Outer sheath	Halogen-free PUR compound, black matt, inkjet marking
Water service	Permanent use in water up to 50 m depth, AD8; not for drinking water

TECHNICAL DATA

(N)12YRD11YT11Y-J - MULTI-CORE DATA (2)								
Configuration	Size mm2	Stranding	Insulation thickness mm	Jacket thickness mm	Outer diameter mm	Ampacity A	Min. bend diameter mm	Weight kg/km
5x1.5	1.5	5x1.5	-	-	12.3-13.8	-	-	195
5x2.5	2.5	5x2.5	-	-	14.0-15.5	-	-	270
5x4	4	5x4	-	-	16.0-17.5	-	-	380
5x6	6	5x6	-	-	17.9-19.4	-	-	505
5x10	10	5x10	-	-	20.7-22.7	-	-	750
5x16	16	5x16	-	-	23.7-25.7	-	-	-
7x1.5	1.5	7x1.5	-	-	13.9-15.4	-	-	180
7x2.5	2.5	7x2.5	-	-	15.7-17.2	-	-	255
12x1.5	1.5	12x1.5	-	-	18.2-19.7	-	-	350
12x2.5	2.5	12x2.5	-	-	21.4-23.4	-	-	440
18x1.5	1.5	18x1.5	-	-	18.6-20.1	-	-	635
18x2.5	2.5	18x2.5	-	-	21.7-23.7	-	-	730
24x1.5	1.5	24x1.5	-	-	21.6-23.6	-	-	675
24x2.5	2.5	24x2.5	-	-	25.5-27.5	-	-	985
28x1.5	1.5	28x1.5	-	-	23.1-25.1	-	-	920
30x1.5	1.5	30x1.5	-	-	23.9-25.9	-	-	835
30x2.5	2.5	30x2.5	-	-	28.3-30.3	-	-	1230
36x2.5	2.5	36x2.5	-	-	28.3-30.3	-	-	1315
48x1.5	1.5	48x1.5	-	-	28.6-30.6	-	-	1535
4G16+2X(4X1.5)C	-	4G16+2X(4X1.5)C	-	-	25.8-27.8	-	-	1190
4G35+2X(4X1.5)C	-	4G35+2X(4X1.5)C	-	-	34.7-36.7	-	-	2195

COMPLIANCE AND SERVICE NOTES

Parameter	Value
Insulation	Polyester-based insulation; up to 5 cores colored, from 6 cores white and numbered

CERTIFICATIONS

