

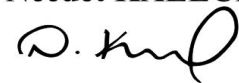
QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20201	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,62
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,58
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,812
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	75%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,10
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,59	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,68
		MINIMUM	1,58
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	620%
		19,00 N/mm ²	22,10
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
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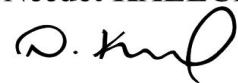
QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20202	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,57
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,809
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,40
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,58	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,67
		MINIMUM	1,57
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	600%
		19,00 N/mm ²	22,80
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20203	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,64
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,806
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	65%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,85
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,56	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,55
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	610%
		19,00 N/mm ²	22,40
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20204	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,65
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,59
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,808
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	68%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,25
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,57	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,56
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	615%
		19,00 N/mm ²	22,75
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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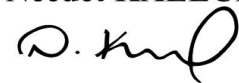
QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20205	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,62
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,53
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,810
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,45
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,59	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,67
		MINIMUM	1,53
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	655%
		19,00 N/mm ²	22,30
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20206	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,61
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,812
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	74%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,20
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,61	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,68
		MINIMUM	1,54
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	640%
		19,00 N/mm ²	22,70
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x10 mm ² PVDF-HMWPE BLACK	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031855	
DRUM NUMBER		74-20221	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,57
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,83	1,815
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	69%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	67,00
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	8,60	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,67
		MINIMUM	1,57
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	630%
		19,00 N/mm ²	22,40
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20207	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,62
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,58
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,138
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,00
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,60	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,67
		MINIMUM	1,60
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	650%
		19,00 N/mm ²	22,00
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20208	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,65
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,135
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	65%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,80
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,62	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,68
		MINIMUM	1,59
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	655%
		19,00 N/mm ²	22,10
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20209	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,65
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,51
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,132
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	69%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,50
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,58	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,65
		MINIMUM	1,56
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	680%
		19,00 N/mm ²	22,55
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20210	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,69
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,57
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,132
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,00
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,60	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,55
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	650%
		19,00 N/mm ²	22,00
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20211	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,64
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,52
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,130
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	72%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,90
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,63	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,54
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	600%
		19,00 N/mm ²	22,80
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20212	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,50
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,129
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	67%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,35
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,58	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,65
		MINIMUM	1,52
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	635%
		19,00 N/mm ²	22,70
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20213	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,61
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,53
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,132
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	68%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,30
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,62	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,54
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	625%
		19,00 N/mm ²	22,45
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20214	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,136
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	71%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,50
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,58	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,65
		MINIMUM	1,53
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	680%
		19,00 N/mm ²	22,55
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20215	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,65
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,56
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,127
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,65
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,61	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,68
		MINIMUM	1,56
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	605%
		19,00 N/mm ²	22,40
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
Y. Can AKSOY




Quality Assurance Manager
Necdet KALECİ



QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20216	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,64
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,53
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,129
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	66%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,55
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,62	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,68
		MINIMUM	1,52
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	680%
		19,00 N/mm ²	22,65
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
Y. Can AKSOY



Quality Assurance Manager
Necdet KALECİ



QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20217	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,64
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,130
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,05
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,59	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,65
		MINIMUM	1,57
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	680%
		19,00 N/mm ²	22,55
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
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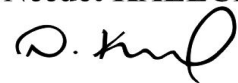
QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20218	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,55
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,134
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	69%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,25
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,61	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,67
		MINIMUM	1,56
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	660%
		19,00 N/mm ²	22,85
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20219	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,63
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,57
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,130
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	70%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,75
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,64	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,69
		MINIMUM	1,58
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	610%
		19,00 N/mm ²	22,50
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

Inspector
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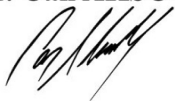
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QUALITY CONTROL TEST REPORT

CUSTOMER		HEIDARI - IRAN	
PRODUCT TYPE		1x16 mm ² PVDF-HMWPE RED	
DATE OF TEST REPORT		23.12.2020	
PRODUCT NUMBER		2031827	
DRUM NUMBER		74-20220	
PRO. NO :	PROCESS NAME	STANDART VALUE	MEASURED VALUE
1	INSULATION WALL THICKNESS AVE. (PVDF) (mm)	0,60	0,62
2	INSULATION WALL THICKNESS MIN. (PVDF) (mm)	0,44	0,58
3	RESISTANCE OF CONDUCTOR AFTER SHEATING MAX. (ohm \ km)	1,15	1,136
4	INSULATION RESISTANCE AT 90 C MIN. (Mohm . km)	10 ¹²	10 ¹⁵
5	ELONGATION OF INSULATION MATERIAL MIN. (PVDF)	50%	69%
6	STRENGTH OF INSULATION MATERIAL MIN. (PVDF)	55,00 N/mm ²	65,40
7	SPARK TEST / HIGH VOLTAGE	9 kV DC	PASSED
8	FLAME RETARDANT TEST EN 60332-1-2	-	PASSED
9	CORE COLORS	NATUREL	
10	OUTER DIAMETER (mm)	9,59	
11	OUTER SHEATING WALL THICKNESS (mm)	AVERAGE	1,66
		MINIMUM	1,58
12	ELONGATION OF OUTER SHEATING MATERIAL MIN. (HMWPE)	400%	635%
		19,00 N/mm ²	22,45
13	SURFACE CASE	SMOOTH	
14	RESULT OF ALL TEST	PASSED	

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